



Cambridge Isotope Laboratories, Inc.

RESEARCH PRODUCTS

# Stable Isotope Standards For Mass Spectrometry



## Stable Isotope Standards for Mass Spectrometry

Mass spectrometry (MS) is being increasingly implemented as a routine tool for scientific, translational, and clinical research. As compared to traditional standards of care in the clinical realm, MS-based assays have been demonstrated to decrease errors and lead to improved clinical outcomes.<sup>1</sup>

Cambridge Isotope Laboratories, Inc. (CIL) recognizes the need to provide high-quality internal standards to aid in the development of robust methods suitable for use in exploratory research to clinical care. This diverse catalog of stable isotope-labeled products ranges from small molecule standards to complete proteomic solutions. Products are manufactured and tested to meet the highest quality chemical and isotopic purity specifications commercially available, allowing researchers and clinicians to focus on what really matters – improving patient care.

The advantages of using stable isotopes include:

- Achieve absolute quantitation
- Improve accuracy and precision
- Reduce analytical and technical variation
- Improve method transferability
- Increase identification confidence

### Reference

1. Jannetto, Paul; Fitzgerald, Robert. **2016**. Effective use of mass spectrometry in the clinical laboratory. *Clin Chem*, 62, 92-98.

CIL provides additional testing on many products as a service to our customers. CIL also has cGMP capabilities and can manufacture products to meet your increasing regulatory compliance requirements. Please contact us to learn more.

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## Amino Acids and Their Derivatives (Free)

Catalog No.	Description	Unit Size
DLM-9219	L-Abrine (methyl-D <sub>3</sub> , 98%)	2 mg, 5 mg
DLM-7476	ADMA·HCl·XH <sub>2</sub> O (2,3,3,4,4,5,5-D <sub>7</sub> , 98%) (asymmetric dimethylarginine) (may be hydrate) CP 98%	5 mg
CLM-8755	β-Alanine (3- <sup>13</sup> C, 99%)	Please inquire
CLM-8756	β-Alanine ( <sup>13</sup> C <sub>3</sub> , 99%)	Please inquire
NLM-1656	β-Alanine ( <sup>15</sup> N, 98%)	0.25 g
CNLM-3440	β-Alanine (3- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-8457	β-Alanine (1,2- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-3946	β-Alanine ( <sup>13</sup> C <sub>3</sub> , 98%; <sup>15</sup> N, 96-99%)	0.25 g
CLM-1655	D-Alanine (1- <sup>13</sup> C, 99%)	Please inquire
CLM-2495	D-Alanine (3- <sup>13</sup> C, 99%)	Please inquire
CLM-3229	D-Alanine (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	0.5 g
DLM-7326	D-Alanine (D <sub>7</sub> , 98%)	Please inquire
NLM-6762	D-Alanine ( <sup>15</sup> N, 98%)	Please inquire
NLM-3289	D-Alanine, N-acetyl ( <sup>15</sup> N, 98%)	Please inquire
CLM-705	DL-Alanine (1- <sup>13</sup> C, 99%)	1 g
CLM-115	DL-Alanine (2- <sup>13</sup> C, 99%)	0.25 g, 0.5 g
CLM-707	DL-Alanine (3- <sup>13</sup> C, 99%)	0.5 g, 1 g
CLM-6056	DL-Alanine (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-4514	DL-Alanine ( <sup>13</sup> C <sub>3</sub> , 98%)	Please inquire
DLM-2760	DL-Alanine (2-D, 98%)	Please inquire
DLM-176	DL-Alanine (3,3,3-D <sub>3</sub> , 98%)	1 g
DLM-1276	DL-Alanine (2,3,3,3-D <sub>4</sub> , 98%)	1 g
NLM-706	DL-Alanine ( <sup>15</sup> N, 98%)	1 g
CDLM-8650	DL-Alanine (3- <sup>13</sup> C, 99%; 2-D, 96%)	Please inquire
CLM-116	L-Alanine (1- <sup>13</sup> C, 99%)	0.5 g, 1 g
CLM-2016	L-Alanine (2- <sup>13</sup> C, 99%)	0.1 g, 0.25 g, 0.5 g
CLM-117	L-Alanine (3- <sup>13</sup> C, 99%)	0.5 g, 1 g
CLM-2734	L-Alanine (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g, 0.5 g
CLM-2184-H	L-Alanine ( <sup>13</sup> C <sub>3</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-3101	L-Alanine (2-D, 96-98%)	Please inquire
DLM-248	L-Alanine (3,3,3-D <sub>3</sub> , 99%)	1 g
DLM-250	L-Alanine (2,3,3,3-D <sub>4</sub> , 98%)	0.1 g, 1 g
DLM-251	L-Alanine (D <sub>7</sub> , 98%)	1 g
NLM-454	L-Alanine ( <sup>15</sup> N, 98%)	0.5 g, 1 g
OLM-7460	L-Alanine ( <sup>18</sup> O <sub>2</sub> , 90%)	Please inquire
CDLM-8649	L-Alanine (3- <sup>13</sup> C, 99%; 2-D, 96%)	1 g
CDLM-3439	L-Alanine (3- <sup>13</sup> C, 99%; 3,3,3-D <sub>3</sub> , 98%)	Please inquire
CNLM-6993	L-Alanine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-3594	L-Alanine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-534-H	L-Alanine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g, 0.5 g,
DNLM-7178	L-Alanine (2,3,3,3-D <sub>4</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CDNLM-6800	L-Alanine ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
CNLM-10424	β-N-methylamino-L-Alanine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) US patent pending: 62/368,562	0.01 g
ULM-10493	β-N-methylamino-L-Alanine·HCl (unlabeled) CP 97%	Please inquire
DLM-9799	DL-2-Aminoadipic acid (2,5,5-D <sub>3</sub> , 98%)	Please inquire
CLM-535	5-Aminolevulinic acid·HCl (4- <sup>13</sup> C, 99%)	0.05 g
CLM-1371	5-Aminolevulinic acid·HCl (5- <sup>13</sup> C, 99%) CP 96%	0.05 g, 0.1 g
CLM-2070	L-Arginine·HCl (guanido- <sup>13</sup> C, 99%)	0.5 g
CLM-1268	L-Arginine·HCl (1- <sup>13</sup> C, 99%)	0.1 g
CLM-2051	L-Arginine·HCl (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
CLM-2265-H	L-Arginine·HCl ( <sup>13</sup> C <sub>6</sub> , 99%)	0.05 g, 0.1 g, 0.25 g, 0.5 g, 1 g
DLM-6038	L-Arginine·HCl (4,4,5,5-D <sub>4</sub> , 94%)	Please inquire

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

**Amino Acids and Their Derivatives (Free) (continued)**

Catalog No.	Description	Unit Size
DLM-541	L-Arginine-HCl ( $D_7$ , 98%)	0.1 g
NLM-1267	L-Arginine-HCl ( $\alpha\text{-}^{15}\text{N}$ , 98%)	Please inquire
NLM-395	L-Arginine-HCl (guanido- $^{15}\text{N}_2$ , 98%)	0.5 g, 1 g
NLM-396	L-Arginine-HCl ( $^{15}\text{N}_4$ , 98%)	0.1 g
CDLM-3789	L-Arginine-HCl (5- $^{13}\text{C}$ , 99%; 4,4,5,5- $D_4$ , 95%)	Please inquire
CNLM-7819	L-Arginine-HCl (1- $^{13}\text{C}$ , 99%; $\alpha\text{-}^{15}\text{N}$ , 98%)	Please inquire
CNLM-539-H	L-Arginine-HCl ( $^{13}\text{C}_6$ , 99%; $^{15}\text{N}_4$ , 99%)	0.05 g, 0.1 g, 0.25 g, 0.5 g, 1 g
DNLM-7543	L-Arginine-HCl ( $D_7$ , 98%; $^{15}\text{N}_4$ , 98%)	0.25 g
CDNLM-6801	L-Arginine-HCl ( $^{13}\text{C}_6$ , 97-99%; $D_7$ , 97-99%; $^{15}\text{N}_4$ , 97-99%)	0.25 g
ULM-8347	L-Arginine-HCl (unlabeled)	0.05 g, 0.1 g
CNLM-9007-CA	Argininosuccinic acid barium salt- $2\text{H}_2\text{O}$ (arginine- $^{13}\text{C}_6$ , 99%; $^{15}\text{N}_4$ , 99%) CP 90%	0.1 mg, 1 g
ULM-9008-CA	Argininosuccinic acid barium salt- $3\text{H}_2\text{O}$ (unlabeled) CP 90%	0.1 mg
CLM-8699-H	L-Asparagine- $\text{H}_2\text{O}$ ( $^{13}\text{C}_4$ , 99%)	0.05 g
DLM-6844	L-Asparagine- $\text{H}_2\text{O}$ (2,3,3- $D_3$ , 94%)	0.1 g
NLM-120	L-Asparagine- $\text{H}_2\text{O}$ (amide- $^{15}\text{N}$ , 98%)	0.25 g, 0.5 g
NLM-3286	L-Asparagine- $\text{H}_2\text{O}$ ( $^{15}\text{N}_2$ , 98%)	0.25 g, 0.5 g
CNLM-7818	L-Asparagine- $\text{H}_2\text{O}$ (1,4- $^{13}\text{C}_2$ , 99%; $\alpha\text{-}^{15}\text{N}$ , 98%)	0.25 g
CNLM-3819-H	L-Asparagine- $\text{H}_2\text{O}$ ( $^{13}\text{C}_4$ , 99%; $^{15}\text{N}_2$ , 99%)	0.1 g, 0.25 g, 0.5 g
DNLM-6932	L-Asparagine- $\text{H}_2\text{O}$ (2,3,3- $D_3$ , 98%; $^{15}\text{N}_2$ , 98%)	0.25 g
CDNLM-6802	L-Asparagine- $\text{H}_2\text{O}$ ( $^{13}\text{C}_4$ , 97-99%; $D_3$ , 97-99%; $^{15}\text{N}_2$ , 97-99%)	0.25 g
CLM-865	DL-Aspartic acid (3- $^{13}\text{C}$ , 99%)	0.1 g, 0.25 g, 0.5 g
CLM-518	DL-Aspartic acid (4- $^{13}\text{C}$ , 99%)	0.25 g, 0.5 g, 1 g
DLM-832	DL-Aspartic acid (2,3,3- $D_3$ , 98%)	1 g
DLM-8599	DL-Aspartic acid, N-acetyl (aspartate-2,3,3- $D_3$ , 97%)	Please inquire
CLM-3616	L-Aspartic acid (1- $^{13}\text{C}$ , 99%)	Please inquire
CLM-3617	L-Aspartic acid (2- $^{13}\text{C}$ , 99%)	Please inquire
CLM-627	L-Aspartic acid (3- $^{13}\text{C}$ , 98-99%)	0.05 g, 0.1 g, 0.25 g
CLM-519	L-Aspartic acid (4- $^{13}\text{C}$ , 99%)	Please inquire
CLM-4455	L-Aspartic acid (1,4- $^{13}\text{C}_2$ , 99%)	0.5 g
CLM-1801-H	L-Aspartic acid ( $^{13}\text{C}_4$ , 99%)	0.25 g, 0.5 g, 1 g
DLM-546	L-Aspartic acid (2,3,3- $D_3$ , 98%)	0.1 g, 0.25 g
NLM-718	L-Aspartic acid ( $^{15}\text{N}$ , 98%)	0.5 g, 1 g
CNLM-7817	L-Aspartic acid (1,4- $^{13}\text{C}_2$ , 99%; $^{15}\text{N}$ , 98%)	0.25 g
CNLM-544-H	L-Aspartic acid ( $^{13}\text{C}_4$ , 99%; $^{15}\text{N}$ , 99%)	0.25 g, 0.5 g, 1 g
DNLM-6931	L-Aspartic acid (2,3,3- $D_3$ , 98%; $^{15}\text{N}$ , 98%)	0.25 g, 0.5 g
CDNLM-6803	L-Aspartic acid ( $^{13}\text{C}_4$ , 97-99%; $D_3$ , 97-99%; $^{15}\text{N}$ , 97-99%)	0.25 g
CLM-4249	L-Aspartic acid-N- $\alpha$ -CBZ ( $^{13}\text{C}_4$ , 97-99%)	0.1 g
CNLM-9461	L-Azidohomoalanine-HCl (1,2,3,4- $^{13}\text{C}_4$ ; 2,4- $^{15}\text{N}_2$ , 98%)	0.05 g, 0.1 g
ULM-9460	L-Azidohomoalanine-HCl (unlabeled)	0.05 g, 0.1 g
CNLM-10625	3-Chlorotyrosine-HCl ( $^{13}\text{C}_9$ , 98%; $^{15}\text{N}$ , 98%) CP 95%	1 mg
CLM-4899	L-Citrulline (ureido- $^{13}\text{C}$ , 99%)	0.1 g
DLM-3860	L-Citrulline (5,5- $D_2$ , 98%)	Please inquire
DLM-6039	L-Citrulline (4,4,5,5- $D_4$ , 95%)	0.01 g
NLM-6850	L-Citrulline (ureido- $^{15}\text{N}_1$ , 98%)	Please inquire
CDLM-7879	L-Citrulline (ureido- $^{13}\text{C}$ , 99%; 5,5- $D_2$ , 98%)	Please inquire
CDLM-8808	L-Citrulline (ureido- $^{13}\text{C}$ , 99%; 3,3,4- $D_3$ , 98%)	Please inquire
CDLM-7139	L-Citrulline (5- $^{13}\text{C}$ , 99%; 4,4,5,5- $D_4$ , 95%)	Please inquire
DLM-3653	Creatinine ( $N$ -methyl- $D_3$ , 98%)	0.1 g
CDLM-4211	Cycloleucine (carboxyl- $^{13}\text{C}$ , 99%; 2,2,5,5- $D_4$ , 96%)	0.25 g
DLM-6108	DL-Cystathionine (3,3,4,4- $D_4$ , 98%)	0.01 g, 0.05 g
CLM-3790	DL-Cysteine (1- $^{13}\text{C}$ , 99%)	Please inquire
CLM-898	DL-Cysteine (3- $^{13}\text{C}$ , 99%)	0.5 g

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

Catalog No.	Description	Unit Size
DLM-899	DL-Cysteine (3,3-D <sub>2</sub> , 98%)	0.5 g
CLM-404	DL-Cysteine, S-benzyl (1- <sup>13</sup> C, 99%)	0.25 g
CLM-3852	L-Cysteine (1- <sup>13</sup> C, 99%)	0.5 g
CLM-1868	L-Cysteine (3- <sup>13</sup> C, 99%)	0.25 g
CLM-4320-H	L-Cysteine ( <sup>13</sup> C <sub>3</sub> , 99%)	0.1 g
DLM-769	L-Cysteine (3,3-D <sub>2</sub> , 98%)	0.1 g
DLM-6901	L-Cysteine (2,3,3-D <sub>3</sub> , 98%)	0.1 g
NLM-2295	L-Cysteine ( <sup>15</sup> N, 98%)	0.25 g
CNLM-7815	L-Cysteine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-3871-H	L-Cysteine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g
DNLM-6902	L-Cysteine (2,3,3-D <sub>3</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g
CDNLM-6809	L-Cysteine ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
CNLM-7579	L-Cysteine, N-acetyl (cysteine- <sup>13</sup> C <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%) CP 95%	Please inquire
CLM-2182	L-Cysteine, S-benzyl (3- <sup>13</sup> C, 99%)	0.1 g
DLM-2942	L-Cysteine, S-methyl (S-methyl-D <sub>3</sub> , 98%) CP 97%	0.25 g
DLM-4532	L-Cysteine, S-trityl (3,3-D <sub>2</sub> , 98%)	0.1 g
NLM-3914	L-Cysteine, S-P-mebz ( <sup>15</sup> N, 98%)	0.1 g
DLM-8738	S-sulfo-DL-Cysteine (2,3,3-D <sub>3</sub> , 99%)	Please inquire
DLM-1000	DL-Cystine (3,3,3',3'-D <sub>4</sub> , 98%)	1 g
NLM-1668	DL-Cystine ( <sup>15</sup> N <sub>2</sub> , 95%)	Please inquire
CLM-520	L-Cystine (3,3'- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g
DLM-9812	L-Cystine (3,3,3',3'-D <sub>4</sub> , 98%)	0.5 g
NLM-3818	L-Cystine ( <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g
CNLM-4244-H	L-Cystine ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	Please inquire
CDNLM-8659	L-Cystine ( <sup>13</sup> C <sub>6</sub> , 98%; D <sub>6</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%) CP 95%	Please inquire
DLM-8516	N,N-Dimethylglycine-HCl (D <sub>6</sub> , 99%)	Please inquire
CLM-7254	O,O'-Dityrosine (ring- <sup>13</sup> C <sub>12</sub> , 99%)	0.1 mg
CLM-7401	L-Dopa (1- <sup>13</sup> C, 99%)	0.1 g
CLM-1007	L-Dopa (ring- <sup>13</sup> C <sub>6</sub> , 99%)	0.1 g
CLM-7824	L-Dopa (1- <sup>13</sup> C, ring- <sup>13</sup> C <sub>6</sub> , 99%)	0.05 g
DLM-2084	L-Dopa (ring-D <sub>3</sub> , 98%)	1 g
COLM-2232	L-Dopa (2,3- <sup>13</sup> C <sub>2</sub> , 97%; 4-hydroxy- <sup>18</sup> O, 95%)	0.05 g
CLM-3632	DL-Glutamic acid (3- <sup>13</sup> C, 99%)	Please inquire
CLM-3028	DL-Glutamic acid (5- <sup>13</sup> C, 99%)	Please inquire
DLM-335	DL-Glutamic acid (2,4,4-D <sub>3</sub> , 98%)	1 g
DLM-357	DL-Glutamic acid (2,3,3,4,4-D <sub>5</sub> , 97%)	0.25 g
CLM-3721	DL-Glutamic acid-H <sub>2</sub> O (1- <sup>13</sup> C, 99%)	1 g
CLM-674	L-Glutamic acid (1- <sup>13</sup> C, 99%)	1 g
CLM-2474	L-Glutamic acid (2- <sup>13</sup> C, 99%)	Please inquire
CLM-4742	L-Glutamic acid (3- <sup>13</sup> C, 99%)	Please inquire
CLM-2431	L-Glutamic acid (4- <sup>13</sup> C, 98-99%)	Please inquire
CLM-613	L-Glutamic acid (5- <sup>13</sup> C, 99%)	0.1 g
CLM-2024	L-Glutamic acid (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g
CLM-3646	L-Glutamic acid (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g
CLM-1800-H	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 99%)	0.25 g, 0.5 g, 1 g
DLM-3725	L-Glutamic acid (2,4,4-D <sub>3</sub> , 97-98%)	0.5 g
DLM-556	L-Glutamic acid (2,3,3,4,4-D <sub>5</sub> , 98%)	0.05 g, 0.1 g
NLM-135	L-Glutamic acid ( <sup>15</sup> N, 98%)	0.5 g, 1 g
CNLM-7812	L-Glutamic acid (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-554-H	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.25 g, 0.5 g, 1 g
DNLM-6996	L-Glutamic acid (2,3,3,4,4-D <sub>5</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CDNLM-6804	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
OLM-8028	L-Glutamic acid·HCl ( <sup>17</sup> O <sub>4</sub> , ~30%)	Please inquire

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Amino Acids and Their Derivatives (Free) (continued)

Catalog No.	Description	Unit Size
CLM-6664	L-Glutamic acid, N-acetyl (glutamate- <sup>13</sup> C <sub>5</sub> , 97-99%)	Please inquire
CLM-3612	L-Glutamine (1- <sup>13</sup> C, 99%)	1 g
CLM-3613	L-Glutamine (2- <sup>13</sup> C, 99%)	Please inquire
CLM-770	L-Glutamine (4- <sup>13</sup> C, 99%)	Please inquire
CLM-1166	L-Glutamine (5- <sup>13</sup> C, 99%)	0.25 g
CLM-2001	L-Glutamine (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
CLM-3641	L-Glutamine (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-1822-H	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-1826	L-Glutamine (2,3,3,4,4-D <sub>5</sub> , 97%)	0.1 g
NLM-1016	L-Glutamine ( $\alpha$ - <sup>15</sup> N, 98%)	0.1 g, 1 g
NLM-557	L-Glutamine (amide- <sup>15</sup> N, 98%)	0.5 g, 1 g
NLM-1328	L-Glutamine ( <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g
CNLM-7813	L-Glutamine (1- <sup>13</sup> C, 99%; $\alpha$ - <sup>15</sup> N, 98%)	Please inquire
CNLM-1275-H	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DNLM-6997	L-Glutamine (2,3,3,4,4-D <sub>5</sub> , 97-98%; <sup>15</sup> N <sub>2</sub> , 97-98%)	0.25 g
CDNLM-6805	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)	0.25 g
CLM-422	Glycine (1- <sup>13</sup> C, 99%)	1 g, 5 g
CLM-136	Glycine (2- <sup>13</sup> C, 99%)	0.5 g, 1 g, 5 g
CLM-1017	Glycine (1,2- <sup>13</sup> C <sub>2</sub> , 97-99%)	0.5 g, 1 g, 5 g
DLM-1674	Glycine (2,2-D <sub>2</sub> , 98%)	5 g
DLM-280	Glycine (D <sub>5</sub> , 98%)	5 g
DLM-280-80	Glycine (D <sub>5</sub> , 80%)	5 g
NLM-202	Glycine ( <sup>15</sup> N, 98%)	1 g, 5 g
CNLM-507	Glycine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	1 g
CNLM-508	Glycine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.5 g, 1 g
CNLM-1673-H	Glycine ( <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 99%)	0.25 g, 0.5 g, 1 g
DNLM-6862	Glycine (2,2-D <sub>2</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CDNLM-6799	Glycine ( <sup>13</sup> C <sub>2</sub> , 97-99%; 2,2-D <sub>2</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
CLM-3777	Glycine, N-acetyl (2- <sup>13</sup> C, 99%)	1 g
NLM-4464	Glycine, N-acetyl ( <sup>15</sup> N, 98%)	Please inquire
CNLM-4524	Glycine, N-acetyl ( <sup>13</sup> C <sub>2</sub> , 97-99%; <sup>15</sup> N, 97-99%)	Please inquire
CLM-10468	Glycine, N-benzoyl (hippuric acid) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
DLM-7703	Glycine, N-benzoyl (hippuric acid) (benzoyl-D <sub>5</sub> , 98%)	Please inquire
NLM-2377	Glycine, N-benzoyl (hippuric acid) ( <sup>15</sup> N, 98%)	0.1 g
DLM-10483	Glycine, N-isovaleryl (isovaleryl-D <sub>9</sub> , 98%)	Please inquire
CNLM-7175	Glycine HCl, ethyl ester ( <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 98%)	Please inquire
NLM-10595	DL-Histidine ( $\alpha$ - <sup>15</sup> N, 98%)	Please inquire
CLM-2636	DL-Histidine (ring-2- <sup>13</sup> C, 99%)	Please inquire
NLM-138	DL-Histidine-2HCl ( $\alpha$ - <sup>15</sup> N, 98%)	0.25 g
NLM-4649	L-Histidine (ring- $\epsilon$ - <sup>15</sup> N, 98%)	Please inquire
NLM-4457	L-Histidine (ring- $\pi$ - <sup>15</sup> N, 98%)	Please inquire
NLM-9585	L-Histidine (ring- <sup>15</sup> N <sub>2</sub> , 98%)	Please inquire
CLM-1512	L-Histidine-HCl-H <sub>2</sub> O (ring-2- <sup>13</sup> C, 99%)	0.1 g
CLM-2264	L-Histidine-HCl-H <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 97-99%)	0.05 g, 0.1 g, 0.25 g
DLM-7855	L-Histidine-HCl-H <sub>2</sub> O (ring-2,4-D <sub>2</sub> ; $\alpha$ , $\beta$ , $\beta$ -D <sub>3</sub> , 98%)	0.25 g
NLM-2245	L-Histidine-HCl-H <sub>2</sub> O ( $\alpha$ - <sup>15</sup> N, 98%)	0.25 g
NLM-846	L-Histidine-HCl-H <sub>2</sub> O (ring- $\pi$ - <sup>15</sup> N, 98%)	Please inquire
NLM-1513	L-Histidine-HCl-H <sub>2</sub> O ( <sup>15</sup> N <sub>3</sub> , 98%)	0.25 g
CNLM-758	L-Histidine-HCl-H <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 97-99%; <sup>15</sup> N <sub>3</sub> , 97-99%) (<5% D)	0.25 g
DNLM-7366	L-Histidine-HCl-H <sub>2</sub> O (D <sub>5</sub> , 98%; <sup>15</sup> N <sub>3</sub> , 98%)	0.25 g
CDNLM-6806	L-Histidine-HCl-H <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N <sub>3</sub> , 97-99%)	0.25 g

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Catalog No.	Description	Unit Size
DLM-8691	$\pi$ -methyl-L-Histidine (methyl-D <sub>3</sub> , 98%)	0.05 g
DLM-2949	$\tau$ -methyl-L-Histidine (methyl-D <sub>3</sub> , 98%)	0.25 g
DLM-8259	DL-Homocysteine (3,3,4,4-D <sub>4</sub> , 98%)	0.1 g
DLM-3619	DL-Homocystine (3,3,3',3',4,4,4',4'-D <sub>8</sub> , 98%)	0.1 g, 0.5 g, 1 g
CNLM-4645	L-Homoarginine·HCl (C <sub>7</sub> , 98%; N <sub>4</sub> , 98%)	10 mg
NLM-2466	L-Homoserine (N, 95-99%) CP 97%	0.5 g
CLM-1026	L-Isoleucine (1- <sup>13</sup> C, 99%)	0.5 g, 1 g
CLM-2248-H	L-Isoleucine (C <sub>6</sub> , 99%)	0.05 g, 0.1 g, 0.25 g
DLM-141	L-Isoleucine (D <sub>10</sub> , 98%)	0.1 g, 0.25 g
NLM-292	L-Isoleucine (N, 98%)	0.25 g
CNLM-7810	L-Isoleucine (1- <sup>13</sup> C, 99%; N, 98%)	Please inquire
CNLM-561-H	L-Isoleucine (C <sub>6</sub> , 99%; N, 99%)	0.05 g, 0.1 g, 0.25 g
DNLM-7325	L-Isoleucine (D <sub>10</sub> , 98%; N, 98%)	0.25 g
CDNLM-6807	L-Isoleucine (C <sub>6</sub> , 97-99%; D <sub>10</sub> , 97-99%; N, 97-99%)	0.25 g
CLM-8742	L-allo-Isoleucine (C <sub>6</sub> , 97-99%)	Please inquire
DLM-1505	L-allo-Isoleucine (D <sub>10</sub> , 98%)	0.1 g
CNLM-8670	L-allo-Isoleucine (C <sub>6</sub> , 97-99%; N, 97-99%)	Please inquire
CDNLM-8911	L-allo-Isoleucine (C <sub>6</sub> , 97-99%; D <sub>10</sub> , 97-99%; N, 97-99%)	Please inquire
CLM-204	DL-Leucine (1- <sup>13</sup> C, 99%)	1 g
CLM-207	DL-Leucine (2- <sup>13</sup> C, 99%)	0.5 g, 1 g
DLM-9423	DL-Leucine (D <sub>10</sub> , 98%)	0.25 g
NLM-355	DL-Leucine (N, 98%)	1 g
CNLM-8679	DL-Leucine (2- <sup>13</sup> C, 99%; N, 98%)	Please inquire
CLM-468	L-Leucine (1- <sup>13</sup> C, 99%)	1 g, 5 g
CLM-2014	L-Leucine (2- <sup>13</sup> C, 99%)	0.5 g, 1 g
CLM-3524	L-Leucine (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g
CLM-2262-H	L-Leucine (C <sub>6</sub> , 99%)	0.05 g, 0.1 g, 0.25 g
DLM-1259	L-Leucine (5,5,5-D <sub>3</sub> , 99%)	1 g, 5 g
DLM-4212	L-Leucine (isopropyl-D <sub>7</sub> , 98%)	1 g
DLM-567	L-Leucine (D <sub>10</sub> , 98%)	0.25 g
NLM-142	L-Leucine (N, 98%)	0.5 g, 1 g
OLM-2041	L-Leucine (O <sub>2</sub> , 94%)	0.25 g
CNLM-615	L-Leucine (1- <sup>13</sup> C, 99%; N, 98%)	1 g
CNLM-615-95	L-Leucine (1- <sup>13</sup> C, 99%; N, 93-95%)	1 g
CNLM-3450	L-Leucine (2- <sup>13</sup> C, 99%; N, 95-99%)	0.5 g
CNLM-281-H	L-Leucine (C <sub>6</sub> , 99%; N, 99%)	0.05 g, 0.1 g, 0.25 g
DNLM-4642	L-Leucine (D <sub>10</sub> , 98%; N, 97%)	0.25 g, 0.5 g
CDNLM-6808	L-Leucine (C <sub>6</sub> , 97-99%; D <sub>10</sub> , 97-99%; N, 97-99%)	0.25 g
ULM-8203	L-Leucine (unlabeled)	Please inquire
DLM-476	L-Leucine, N-Acetyl (D <sub>10</sub> , 98%)	0.25 g
DLM-3542	DL-Lysine·HCl (3,3,4,4,5,5,6,6-D <sub>8</sub> , 98%)	Please inquire
NLM-8762	DL-Lysine·HCl (N <sub>2</sub> , 98%)	Please inquire
NLM-1683	DL-Lysine·HCl·H <sub>2</sub> O ( $\alpha$ - <sup>15</sup> N, 99%)	1 g
CLM-749	DL-Lysine·2HCl (1- <sup>13</sup> C, 99%)	1 g
DLM-8941	DL-Lysine·2HCl (4,4,5,5-D <sub>4</sub> , 96-98%)	Please inquire
NLM-1031	DL-Lysine·2HCl ( $\epsilon$ - <sup>15</sup> N, 98%)	1 g
CNLM-3452	DL-Lysine·2HCl (1- <sup>13</sup> C, 99%; $\epsilon$ - <sup>15</sup> N, 99%)	Please inquire
CNLM-3453	DL-Lysine·2HCl (2- <sup>13</sup> C, 99%; $\epsilon$ - <sup>15</sup> N, 99%)	0.1 g
DLM-4731	L-Lysine, N- $\epsilon$ -carboxymethyl (4,4,5,5-D <sub>4</sub> , 96-98%)	Please inquire
CLM-653	L-Lysine·2HCl (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g
CLM-632	L-Lysine·2HCl (6- <sup>13</sup> C, 99%)	0.25 g
CLM-2247-H	L-Lysine·2HCl (C <sub>6</sub> , 99%)	0.05 g, 0.1 g, 0.25 g, 1 g

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## Amino Acids and Their Derivatives (Free) (continued)

Catalog No.	Description	Unit Size
DLM-2640	L-Lysine·2HCl (4,4,5,5-D <sub>4</sub> , 96-98%)	0.25 g, 0.5 g, 1 g
DLM-2641	L-Lysine·2HCl (3,3,4,4,5,5,6,6-D <sub>8</sub> , 98%)	0.25 g
DLM-570	L-Lysine·2HCl (D <sub>9</sub> , 98%)	0.1 g
NLM-143	L-Lysine·2HCl ( $\alpha$ - <sup>15</sup> N, 95-99%)	0.25 g, 1 g
NLM-631	L-Lysine·2HCl ( $\epsilon$ - <sup>15</sup> N, 98%)	0.5 g
NLM-1554	L-Lysine·2HCl ( <sup>15</sup> N <sub>2</sub> , 98%)	0.1 g
CNLM-7821	L-Lysine·2HCl (1- <sup>13</sup> C, 99%; $\alpha$ - <sup>15</sup> N, 98%)	Please inquire
CNLM-3454	L-Lysine·2HCl (6- <sup>13</sup> C, 99%; $\epsilon$ - <sup>15</sup> N, 98%)	Please inquire
CNLM-291-H	L-Lysine·2HCl ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	0.05 g, 0.1 g, 0.25 g, 0.5 g, 1 g
DNLM-7545	L-Lysine·2HCl (D <sub>9</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g
CDNLM-6810	L-Lysine·2HCl ( <sup>13</sup> C <sub>6</sub> , 97-99%; D <sub>9</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)	0.25 g
ULM-8766	L-Lysine·2HCl (unlabeled)	0.05 g, 0.1 g
CLM-7356	D-Methionine (1- <sup>13</sup> C, 99%) CP 96%	Please inquire
CLM-6191	DL-Methionine (1- <sup>13</sup> C, 99%)	Please inquire
CLM-3387	DL-Methionine (methyl- <sup>13</sup> C, 99%)	Please inquire
DLM-2933	DL-Methionine (3,3,4,4-D <sub>4</sub> , 98%)	Please inquire
DLM-9019	DL-Methionine (3,3,4,4-D <sub>4</sub> ; methyl-D <sub>3</sub> , 98%)	Please inquire
CDNLM-8026	DL-Methionine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N, 97-99%)	Please inquire
CLM-206	L-Methionine (methyl- <sup>13</sup> C, 99%)	1 g
CLM-3267	L-Methionine (1- <sup>13</sup> C, 99%)	0.25 g, 1 g
CLM-893-H	L-Methionine ( <sup>13</sup> C <sub>5</sub> , 99%)	0.05 g, 0.1 g, 0.25 g
DLM-431	L-Methionine (methyl-D <sub>3</sub> , 98%)	1 g, 5 g
DLM-6797	L-Methionine (2,3,3,4,4-D <sub>5</sub> ; methyl-D <sub>3</sub> , 98%)	0.1 g
NLM-752	L-Methionine ( <sup>15</sup> N, 96-98%)	0.5 g, 1 g
CDLM-760	L-Methionine (1- <sup>13</sup> C, 99%; methyl-D <sub>3</sub> , 98%)	Please inquire
CDLM-9289	L-Methionine (methyl- <sup>13</sup> C, 99%; methyl-D <sub>3</sub> , 98%)	0.25 g, 1 g
CDLM-8885	L-Methionine (methyl- <sup>13</sup> CH <sub>3</sub> , 99%; 2,3,3,4,4-D <sub>5</sub> , 98%)	0.5 g, 1 g
CNLM-7807	L-Methionine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-9774	L-Methionine (1,2,3,4- <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-759-H	L-Methionine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.05 g, 0.1 g, 0.25 g
DNLN-7179	L-Methionine (D <sub>8</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g
CDNLM-6798	L-Methionine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N, 97-99%)	Please inquire
CLM-8002	L-Methionine sulfone (1- <sup>13</sup> C, 99%)	Please inquire
DLM-200	DL-Ornithine·HCl (3,3,4,4,5,5-D <sub>5</sub> , 98%)	Please inquire
DLM-6668	DL-Ornithine·HCl (D <sub>7</sub> , 98%)	Please inquire
NLM-1047	DL-Ornithine·HCl ( $\alpha$ - <sup>15</sup> N, 98%)	Please inquire
NLM-8064	DL-Ornithine·HCl ( <sup>15</sup> N <sub>2</sub> , 98%)	Please inquire
DNLN-8618	DL-Ornithine·HCl (D <sub>7</sub> , 98%; 5- <sup>15</sup> N, 98%)	Please inquire
CLM-1036	L-Ornithine·HCl (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-4724-H	L-Ornithine·HCl ( <sup>13</sup> C <sub>5</sub> , 99%)	0.1 g
DLM-4261	L-Ornithine·HCl (5,5-D <sub>2</sub> , 98%)	0.25 g
DLM-6046	L-Ornithine·HCl (4,4,5,5-D <sub>4</sub> , 95%)	Please inquire
DLM-2969	L-Ornithine·HCl (3,3,4,4,5,5-D <sub>6</sub> , 98%)	0.1 g, 0.25 g
DLM-6669	L-Ornithine·HCl (D <sub>7</sub> , 98%)	0.25 g
NLM-2212	L-Ornithine·HCl ( $\alpha$ - <sup>15</sup> N, 98%)	Please inquire
NLM-2174	L-Ornithine·HCl (5- <sup>15</sup> N, 98%)	Please inquire
NLM-3610	L-Ornithine·HCl ( <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g
CDLM-3873	L-Ornithine·HCl (5- <sup>13</sup> C, 99%; 4,4,5,5-D <sub>4</sub> , 95%)	Please inquire
CNLM-7578-H	L-Ornithine·HCl ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	Please inquire
DLM-4526	D-Phenylalanine (ring-D <sub>5</sub> , 97%)	Please inquire
CLM-761	DL-Phenylalanine (1- <sup>13</sup> C, 99%)	Please inquire
CLM-7486	DL-Phenylalanine (ring- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire

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Catalog No.	Description	Unit Size
DLM-2983	DL-Phenylalanine (2-D, 98%)	1 g
DLM-2986	DL-Phenylalanine (ring-D <sub>5</sub> , 98%)	1 g
NLM-3434	DL-Phenylalanine ( <sup>15</sup> N, 98%)	0.5 g
CLM-762	L-Phenylalanine (1- <sup>13</sup> C, 99%)	1 g
CLM-1631	L-Phenylalanine (2- <sup>13</sup> C, 99%) CP 97%	0.05 g, 0.25 g
CLM-1053	L-Phenylalanine (3- <sup>13</sup> C, 99%)	0.1 g, 0.25 g
CLM-1055	L-Phenylalanine (ring- <sup>13</sup> C <sub>6</sub> , 99%)	0.25 g
CLM-2250-H	L-Phenylalanine ( <sup>13</sup> C <sub>9</sub> , 99%)	0.25 g, 0.5 g, 1 g
DLM-2984	L-Phenylalanine (2-D, 95%)	0.5 g
DLM-2985	L-Phenylalanine (3,3-D <sub>2</sub> , 98%)	0.1 g, 0.5 g, 1 g
DLM-1258	L-Phenylalanine (ring-D <sub>5</sub> , 98%)	1 g, 5 g
DLM-372	L-Phenylalanine (D <sub>8</sub> , 98%)	1 g
NLM-108	L-Phenylalanine ( <sup>15</sup> N, 98%)	0.5 g, 1 g
CNLM-7611	L-Phenylalanine (2,3- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-575-H	L-Phenylalanine ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g, 0.5 g, 1 g
DNLM-7180	L-Phenylalanine (D <sub>8</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CDNLM-6811	L-Phenylalanine ( <sup>13</sup> C <sub>9</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
ULM-8205	L-Phenylalanine (unlabeled)	Please inquire
CLM-2479	DL-Proline (1- <sup>13</sup> C, 99%)	Please inquire
DLM-2657	DL-Proline (2,3,3,4,4,5,5-D <sub>7</sub> , 97-98%)	0.25 g
NLM-1689	DL-Proline ( <sup>15</sup> N, 98%)	Please inquire
CLM-510	L-Proline (1- <sup>13</sup> C, 99%)	0.25 g
CLM-2260-H	L-Proline ( <sup>13</sup> C <sub>5</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-487	L-Proline (D <sub>7</sub> , 97-98%)	0.1 g, 0.25 g
NLM-835	L-Proline ( <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CNLM-7822	L-Proline (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-436-H	L-Proline ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g, 0.5 g
DNLM-7562	L-Proline (D <sub>7</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g
CDNLM-6812	L-Proline ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>7</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
ULM-8333	L-Proline (unlabeled)	0.05 g, 0.1 g
DLM-6874	Sarcosine·HCl (N-methylglycine·HCl) (methyl-D <sub>3</sub> , 98%)	0.1 g, 0.25 g
CNLM-9699	Sarcosine·HCl (N-methylglycine·HCl) ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	Please inquire
CLM-1075	DL-Serine (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-496	DL-Serine (2- <sup>13</sup> C, 99%)	0.5 g
CLM-497	DL-Serine (3- <sup>13</sup> C, 99%)	0.1 g, 0.25 g, 0.5 g
DLM-1074	DL-Serine (3,3-D <sub>2</sub> , 98%)	Please inquire
DLM-1073	DL-Serine (2,3,3-D <sub>3</sub> , 98%)	1 g
NLM-1531	DL-Serine ( <sup>15</sup> N, 98%)	Please inquire
CNLM-4207	DL-Serine ( <sup>13</sup> C <sub>3</sub> , 98%; <sup>15</sup> N, 98%)	Please inquire
CLM-1573	L-Serine (1- <sup>13</sup> C, 99%)	0.25 g
CLM-2013	L-Serine (2- <sup>13</sup> C, 99%)	0.1 g
CLM-1572	L-Serine (3- <sup>13</sup> C, 99%)	0.1 g, 0.25 g
CLM-1574-H	L-Serine ( <sup>13</sup> C <sub>3</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-161	L-Serine (3,3-D <sub>2</sub> , 98%)	Please inquire
DLM-582	L-Serine (2,3,3-D <sub>3</sub> , 98%)	0.1 g, 0.5 g
NLM-2036	L-Serine ( <sup>15</sup> N, 98%)	0.5 g, 1 g
OLM-9960	L-Serine (carboxyl- <sup>18</sup> O <sub>2</sub> , 95%)	Please inquire
CNLM-7814	L-Serine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-474-H	L-Serine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g, 0.5 g
DNLM-6863	L-Serine (2,3,3-D <sub>3</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g
CDNLM-6813	L-Serine ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
CLM-3949	Sodium glutamate·XH <sub>2</sub> O ( <sup>13</sup> C <sub>5</sub> , 97-98%) (may be hydrate)	0.25 g

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**Amino Acids and Their Derivatives (Free) (continued)**

Catalog No.	Description	Unit Size
CNLM-8183	Suberylglycine (glycine- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 98%)	Please inquire
DLM-8057	Taurine (D <sub>4</sub> , 98%) CP 95%	0.1 g, 0.25 g
CNLM-10253	Taurine ( <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	0.01 g
CLM-447	L-Threonine (1- <sup>13</sup> C, 99%)	0.5 g
CLM-2261	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%)	0.1 g, 0.25 g, 0.5 g
DLM-1693	L-Threonine (D <sub>5</sub> , 98%)	Please inquire
NLM-742	L-Threonine ( <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CDLM-9307	L-Threonine (4- <sup>13</sup> C, 97%; 2,3-D <sub>2</sub> , 98%)	0.1 g, 0.5 g
CNLM-587	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.1 g, 0.25 g, 0.5 g
DNLM-7367	L-Threonine (D <sub>5</sub> , 97%; <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CDNLM-6814	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%; D <sub>5</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
ULM-8800	L-Threonine (unlabeled)	Please inquire
DLM-10522	D-Tryptophan (indole-D <sub>5</sub> , 98%)	Please inquire
CLM-778	L-Tryptophan (1- <sup>13</sup> C, 99%)	0.25 g
CLM-1543	L-Tryptophan (indole-2- <sup>13</sup> C, 98%)	0.25 g
CLM-716	L-Tryptophan (indole-3- <sup>13</sup> C, 95-99%)	0.25 g
CLM-717	L-Tryptophan (indole-4- <sup>13</sup> C, 99%) CP 95%	Please inquire
CLM-4290-H	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 99%)	0.1 g
DLM-1092	L-Tryptophan (indole-D <sub>5</sub> , 98%)	0.5 g
DLM-6903	L-Tryptophan (D <sub>8</sub> , 97-98%)	0.25 g
NLM-1695	L-Tryptophan ( $\alpha$ - <sup>15</sup> N, 95-99%)	0.1 g
NLM-1208	L-Tryptophan (indole- <sup>15</sup> N, 98%)	0.25 g, 0.5 g
NLM-800	L-Tryptophan ( <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g, 0.5 g
CNLM-2475-H	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	0.1 g
DNLM-6904	L-Tryptophan (D <sub>8</sub> , 98%; <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g
CDNLM-6816	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)	0.25 g
CLM-448	DL-Tyrosine (1- <sup>13</sup> C, 99%)	Please inquire
DLM-137	DL-Tyrosine (3,3-D <sub>2</sub> , 98%)	Please inquire
DLM-2914	DL-Tyrosine (ring-3,5-D <sub>2</sub> , 98%)	Please inquire
CLM-776	L-Tyrosine (1- <sup>13</sup> C, 99%)	1 g
CLM-437	L-Tyrosine (2- <sup>13</sup> C, 99%)	0.1 g, 0.25 g
CLM-3378	L-Tyrosine (3- <sup>13</sup> C, 99%)	0.1 g, 0.25 g
CLM-622	L-Tyrosine (phenol-4- <sup>13</sup> C, 95-99%)	0.25 g
CLM-623	L-Tyrosine (phenol-3,5- <sup>13</sup> C <sub>2</sub> , 95-99%)	0.25 g
CLM-1542	L-Tyrosine (ring- <sup>13</sup> C <sub>6</sub> , 99%)	0.25 g
CLM-2263-H	L-Tyrosine ( <sup>13</sup> C <sub>9</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-2317	L-Tyrosine (3,3-D <sub>2</sub> , 98%)	0.5 g, 1 g
DLM-449	L-Tyrosine (ring-3,5-D <sub>2</sub> , 98%)	1 g, 5 g
DLM-2917	L-Tyrosine (ring-2,6-D <sub>2</sub> , 2-D, 98%)	Please inquire
DLM-451	L-Tyrosine (ring-D <sub>4</sub> , 98%)	0.5 g, 1 g
DLM-589	L-Tyrosine (D <sub>7</sub> , 98%)	Please inquire
NLM-590	L-Tyrosine ( <sup>15</sup> N, 98%)	0.5 g
OLM-621	L-Tyrosine (phenol- <sup>17</sup> O, 35-40%)	0.25 g, 0.5 g
OLM-8696	L-Tyrosine (phenol- <sup>18</sup> O, 85-90%)	Please inquire
CDLM-2369	L-Tyrosine (ring- <sup>13</sup> C <sub>6</sub> , 99%; 3,3-D <sub>2</sub> , 30%)	0.1 g
CNLM-7809	L-Tyrosine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-7610	L-Tyrosine (2,3- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-439-H	L-Tyrosine ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g, 0.5 g
DNLM-7373	L-Tyrosine (D <sub>7</sub> , 97-98%; <sup>15</sup> N, 98%)	0.25 g
CDNLM-6815	L-Tyrosine ( <sup>13</sup> C <sub>9</sub> , 97-99%; D <sub>7</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
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Catalog No.	Description	Unit Size
CLM-9097	3-Bromo-L-tyrosine (ring- <sup>13</sup> C <sub>6</sub> , 99%)	0.01 g
CLM-7103	3-Chloro-L-tyrosine (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	0.01 g
CLM-10524	3-Iodo-L-tyrosine ( <sup>13</sup> C <sub>6</sub> , 99%)	0.01 g
CLM-7104	3-Nitro-L-tyrosine (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 94%	0.01 g
CLM-10543	cis-Urocanic acid (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%)	1 mg, 2 mg, 5 mg
CLM-166	DL-Valine (1- <sup>13</sup> C, 99%)	Please inquire
CLM-3277	DL-Valine (2- <sup>13</sup> C, 99%)	Please inquire
DLM-311	DL-Valine (D <sub>8</sub> , 98%)	0.5 g, 1 g
NLM-236	DL-Valine ( <sup>15</sup> N, 98%)	Please inquire
CLM-470	L-Valine (1- <sup>13</sup> C, 99%)	1 g
CLM-3050	L-Valine (2- <sup>13</sup> C, 99%)	0.25 g
CLM-9217	L-Valine (dimethyl- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g, 1 g
CLM-2249-H	L-Valine ( <sup>13</sup> C <sub>5</sub> , 99%)	0.25 g, 1 g, 5 g
DLM-7732	L-Valine (3-D, 98%)	1 g
DLM-4364	L-Valine (2,3-D <sub>2</sub> , 98%)	0.1 g, 0.25 g
DLM-488	L-Valine (D <sub>8</sub> , 98%)	0.25 g, 0.5 g
NLM-316	L-Valine ( <sup>15</sup> N, 98%)	0.5 g, 1 g
CNLM-3466	L-Valine (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-8678	L-Valine (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-442-H	L-Valine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.25 g, 0.5 g, 1 g
DNLM-4643	L-Valine (D <sub>8</sub> , 96%; <sup>15</sup> N, 96%)	0.25 g, 0.5 g
CDNLM-4281	L-Valine ( <sup>13</sup> C <sub>5</sub> , 95-97%; 2,3-D <sub>2</sub> , 97%; <sup>15</sup> N, 96-99%)	0.1 g, 0.25 g
CDNLM-6817	L-Valine ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>8</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
NLM-7888	L-Valine, N-acetyl ( <sup>15</sup> N, 98%)	0.5 g

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## Amino Acids (Protected)

Catalog No.	Description	Unit Size
NLM-2168	D-Alanine-N-t-BOC ( <sup>15</sup> N, 98%)	0.25 g
CLM-818	L-Alanine-N-FMOC (1- <sup>13</sup> C, 99%)	1 g
CLM-3638	L-Alanine-N-FMOC (2- <sup>13</sup> C, 99%)	0.25 g
CLM-1142	L-Alanine-N-FMOC (3- <sup>13</sup> C, 99%)	1 g
CLM-7785	L-Alanine-N-FMOC ( <sup>13</sup> C <sub>3</sub> , 97-99%)	0.25 g
DLM-7316	L-Alanine-N-FMOC (3,3,3-D <sub>3</sub> , 98%)	1 g
DLM-8168	L-Alanine-N-FMOC (2,3,3,3-D <sub>4</sub> , 98%)	0.5 g
NLM-614	L-Alanine-N-FMOC ( <sup>15</sup> N, 98%)	1 g
CNLM-4355-H	L-Alanine-N-FMOC ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g
CDNLM-7852	L-Alanine-N-FMOC ( <sup>13</sup> C <sub>3</sub> , 97-99%; D <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)	Please inquire
CLM-2150	L-Alanine-N-t-BOC (1- <sup>13</sup> C, 99%)	1 g
CLM-2011	L-Alanine-N-t-BOC (2- <sup>13</sup> C, 98-99%)	0.25 g
CLM-2151	L-Alanine-N-t-BOC (3- <sup>13</sup> C, 99%)	0.5 g, 1 g
CLM-3589	L-Alanine-N-t-BOC ( <sup>13</sup> C <sub>3</sub> , 97-99%)	0.25 g
DLM-649	L-Alanine-N-t-BOC (2-D, 98%)	Please inquire
DLM-2793	L-Alanine-N-t-BOC (3,3,3-D <sub>3</sub> , 99%)	1 g
NLM-1903	L-Alanine-N-t-BOC ( <sup>15</sup> N, 98%)	0.25 g, 0.5 g, 1 g
CNLM-6014	L-Alanine-N-t-BOC (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 96-99%)	Please inquire
CNLM-2394	L-Alanine-N-t-BOC ( <sup>13</sup> C <sub>3</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.05 g, 0.1 g
CLM-1371	5-Aminolevulinic acid·HCl (5- <sup>13</sup> C, 99%) CP 96%	0.05 g, 0.1 g
CLM-8475-H	L-Arginine-N-FMOC, PBF-OH ( <sup>13</sup> C <sub>6</sub> , 99%) contains solvent	1 g
NLM-8841	L-Arginine-N-FMOC, PBF-OH ( <sup>15</sup> N <sub>4</sub> , 98%) contains solvent	Please inquire
CNLM-8474-H	L-Arginine-N-FMOC, PBF-OH ( <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>4</sub> , 99%) contains solvent	0.1 g, 0.25 g, 0.5 g, 1 g
NLM-1264	L-Arginine-N-FMOC, PMC ( <sup>15</sup> N <sub>4</sub> , 98%) CP 94%	0.1 g
CNLM-4354	L-Asparagine-N-FMOC ( <sup>13</sup> C <sub>4</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)	Please inquire
CNLM-6193-H	L-Asparagine-N-FMOC, N-β-trityl ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	0.1 g
NLM-4204	L-Asparagine-N-FMOC, N-β-trityl ( <sup>15</sup> N <sub>2</sub> , 98%)	0.1 g
CNLM-4788	L-Aspartic acid-N-FMOC ( <sup>13</sup> C <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.05 g
NLM-647	L-Aspartic acid-N-FMOC, β-O-t-butyl ester ( <sup>15</sup> N, 98%)	0.1 g, 0.5 g, 1 g
NLM-3493	L-Aspartic acid-N-t-BOC ( <sup>15</sup> N, 98%)	1 g
NLM-1908	L-Aspartic acid-N-t-BOC, β-Bz ester ( <sup>15</sup> N, 98%)	0.25 g
CNLM-2392	L-Aspartic acid-N-t-BOC, β-Bz ester ( <sup>13</sup> C <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.05 g
DLM-4721	L-Cysteine-N-FMOC, S-trityl (3,3-D <sub>2</sub> , 98%)	0.1 g, 0.25 g, 0.5 g
CNLM-4722-H	L-Cysteine-N-FMOC, S-trityl ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g
CLM-1901	L-Cysteine-N-t-BOC, S-benzyl (3- <sup>13</sup> C, 99%)	0.25 g
NLM-3874	L-Cysteine-N-t-BOC, S-P-mebz ( <sup>15</sup> N, 98%)	0.25 g
NLM-8960	L-Glutamic acid-N-FMOC, γ-t-butyl ester ( <sup>15</sup> N, 98%)	0.1 g
CNLM-4753-H	L-Glutamic acid-N-FMOC, γ-t-butyl ester ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%) CP 96%	0.1 g
CLM-2008	L-Glutamic acid-N-t-BOC, γ-benzyl ester (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
NLM-1907	L-Glutamic acid-N-t-BOC, γ-benzyl ester ( <sup>15</sup> N, 98%)	Please inquire
CLM-1902	L-Glutamine-N-t-BOC (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
NLM-3419	L-Glutamine-N-t-BOC (α- <sup>15</sup> N, 98%)	0.5 g
CLM-3639	Glycine-N-FMOC (1- <sup>13</sup> C, 99%)	1 g
CLM-2387	Glycine-N-FMOC (2- <sup>13</sup> C, 99%)	1 g
CLM-7547	Glycine-N-FMOC ( <sup>13</sup> C <sub>2</sub> , 97-99%)	1 g
DLM-7339	Glycine-N-FMOC (2,2-D <sub>2</sub> , 98%)	1 g
NLM-694	Glycine-N-FMOC ( <sup>15</sup> N, 98%)	1 g
CNLM-7697	Glycine-N-FMOC (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.25 g
CNLM-7698	Glycine-N-FMOC (2- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	0.1 g
CNLM-4357-H	Glycine-N-FMOC ( <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g
CDNLM-7853	Glycine-N-FMOC ( <sup>13</sup> C <sub>2</sub> , 97-99%; 2,2-D <sub>2</sub> , 97-99%; <sup>15</sup> N, 97-99%)	Please inquire
CLM-2152	Glycine-N-t-BOC (1- <sup>13</sup> C, 99%)	1 g
CLM-1900	Glycine-N-t-BOC (2- <sup>13</sup> C, 99%)	1 g

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Catalog No.	Description	Unit Size
DLM-2153	Glycine-N-t-BOC (2,2-D <sub>2</sub> , 98%)	1 g
NLM-2109	Glycine-N-t-BOC (¹⁵N, 98%)	1 g
CNLM-9686	Glycine-N-t-BOC (2-¹³C, 99%; ¹⁵N, 98%)	Please inquire
CNLM-2412	Glycine-N-t-BOC (¹³C <sub>2</sub> , 97-99%; ¹⁵N, 97-99%)	0.1 g
NLM-8010	L-Histidine-N-FMOC, N-Lm-trityl (¹⁵N <sub>3</sub> , 98%)	0.1 g
CLM-8043	L-Isoleucine-N-FMOC (1-¹³C, 99%)	0.25 g
CLM-7794	L-Isoleucine-N-FMOC (¹³C <sub>6</sub> , 97-99%)	Please inquire
NLM-391	L-Isoleucine-N-FMOC (¹⁵N, 98%)	0.25 g
NLM-2167	L-Isoleucine-N-t-BOC (¹⁵N, 98%)	0.25 g
DLM-7374	Kynurenic acid (ring-D <sub>5</sub> , 98%)	Please inquire
CLM-3691	L-Leucine-N-FMOC (1-¹³C, 99%)	1 g
CLM-7546	L-Leucine-N-FMOC (1,2-¹³C <sub>2</sub> , 99%)	0.1 g
CLM-3683	L-Leucine-N-FMOC (¹³C <sub>6</sub> , 97-99%)	0.1 g
DLM-7202	L-Leucine-N-FMOC (5,5,5-D <sub>3</sub> , 98%)	1 g
DLM-7575	L-Leucine-N-FMOC (D <sub>10</sub> , 98%)	0.25 g
NLM-2397	L-Leucine-N-FMOC (¹⁵N, 98%)	1 g
CNLM-4345-H	L-Leucine-N-FMOC (¹³C <sub>6</sub> , 99%; ¹⁵N, 99%)	0.1 g, 0.25 g
CDNLM-7854	L-Leucine-N-FMOC (¹³C <sub>6</sub> , 97-99%; D <sub>10</sub> , 97-99%; ¹⁵N, 97-99%)	Please inquire
CLM-2155	L-Leucine-N-t-BOC·H <sub>2</sub> O (1-¹³C, 99%)	1 g
CLM-2010	L-Leucine-N-t-BOC·H <sub>2</sub> O (2-¹³C, 99%)	0.25 g
DLM-2736	L-Leucine-N-t-BOC·H <sub>2</sub> O (5,5,5-D <sub>3</sub> , 98%)	1 g
DLM-3650	L-Leucine-N-t-BOC·H <sub>2</sub> O (D <sub>10</sub> , 98%)	0.5 g
NLM-1904	L-Leucine-N-t-BOC·H <sub>2</sub> O (¹⁵N, 98%)	1 g
CNLM-2396	L-Leucine-N-t-BOC·H <sub>2</sub> O (¹³C <sub>6</sub> , 97-99%; ¹⁵N, 97-99%)	0.05 g
CLM-6194	L-Lysine-α-N-FMOC, ε-N-t-BOC (1-¹³C, 99%)	0.1 g
CLM-7865-H	L-Lysine-α-N-FMOC, ε-N-t-BOC (¹³C <sub>6</sub> , 99%)	Please inquire
NLM-4631	L-Lysine-α-N-FMOC, ε-N-t-BOC (¹⁵N <sub>2</sub> , 96-98%)	0.1 g
CNLM-4754-H	L-Lysine-α-N-FMOC, ε-N-t-BOC (¹³C <sub>6</sub> , 99%; ¹⁵N <sub>2</sub> , 99%)	0.1 g, 0.25 g, 0.5 g, 1 g
CLM-8166	L-Methionine-N-FMOC (1-¹³C, 99%)	Please inquire
CLM-1141	L-Methionine-N-FMOC (methyl-¹³C, 99%)	Please inquire
NLM-4632	L-Methionine-N-FMOC (¹⁵N, 98%)	Please inquire
CNLM-4358-H	L-Methionine-N-FMOC (¹³C <sub>5</sub> , 97-99%; ¹⁵N, 97-99%)	0.1 g
CLM-2156	L-Methionine-N-t-BOC (methyl-¹³C, 98%)	Please inquire
CLM-4824	L-Phenylalanine-N-FMOC (1-¹³C, 99%)	0.5 g
CLM-3684	L-Phenylalanine-N-FMOC (ring-¹³C <sub>6</sub> , 99%)	0.1 g
DLM-7786	L-Phenylalanine-N-FMOC (ring-D <sub>5</sub> , 98%)	0.25 g
DLM-8752	L-Phenylalanine-N-FMOC (D <sub>8</sub> , 98%)	Please inquire
NLM-1265	L-Phenylalanine-N-FMOC (¹⁵N, 98%)	1 g
CNLM-4362-H	L-Phenylalanine-N-FMOC (¹³C <sub>9</sub> , 99%; ¹⁵N, 99%)	0.1 g, 0.25 g
CLM-2170	L-Phenylalanine-N-t-BOC (1-¹³C, 99%)	0.5 g
CLM-2009	L-Phenylalanine-N-t-BOC (2-¹³C, 99%)	0.25 g
CLM-2061	L-Phenylalanine-N-t-BOC (ring-¹³C <sub>6</sub> , 99%)	0.1 g
CLM-7859	L-Phenylalanine-N-t-BOC (¹³C <sub>9</sub> , 97-99%)	0.05 g
DLM-2157	L-Phenylalanine-N-t-BOC (ring-D <sub>5</sub> , 98%)	1 g
NLM-1905	L-Phenylalanine-N-t-BOC (¹⁵N, 98%)	1 g
CNLM-2393	L-Phenylalanine-N-t-BOC (¹³C <sub>9</sub> , 97-99%; ¹⁵N, 97-99%)	0.05 g
CLM-8044	L-Proline-N-FMOC (1-¹³C, 99%)	0.25 g
NLM-3906	L-Proline-N-FMOC (¹⁵N, 98%)	0.25 g
NLM-2329	L-Proline-N-t-BOC (¹⁵N, 96%)	0.25 g
CNLM-4347-H	L-Proline-N-FMOC (¹³C <sub>5</sub> , 99%; ¹⁵N, 97-99%)	0.1 g, 0.25 g
CNLM-8403-H	L-Serine-N-FMOC (¹³C <sub>3</sub> , 99%; ¹⁵N, 99%)	1 g
CLM-8167	L-Serine-N-FMOC, O-t-butyl ether (1-¹³C, 99%)	0.25 g

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**Amino Acids (Protected) (continued)**

Catalog No.	Description	Unit Size
NLM-4630	L-Serine-N-FMOC, O-t-butyl ether ( <sup>15</sup> N, 98%)	0.25 g
CNLM-4755-H	L-Serine-N-FMOC, O-t-butyl ether ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g
CLM-2007	L-Serine-N-t-BOC, O-Bz ether (2- <sup>13</sup> C, 99%)	Please inquire
CLM-756	L-Serine-N-t-BOC, O-Bz ether (3- <sup>13</sup> C, 99%)	0.1 g
NLM-2025	L-Serine-N-t-BOC, O-Bz ether ( <sup>15</sup> N, 98%)	0.1 g
NLM-8170	L-Threonine-N-FMOC, O-t-butyl ether ( <sup>15</sup> N, 98%)	0.1 g
CNLM-7615-H	L-Threonine-N-FMOC, O-t-butyl ether ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g
NLM-3681	L-Threonine-N-t-BOC, O-benzyl ether ( <sup>15</sup> N, 98%)	Please inquire
DLM-6113	L-Tryptophan-N-FMOC (indole-D <sub>5</sub> , 98%)	0.25 g
NLM-3423	L-Tryptophan-N-FMOC ( $\alpha$ - <sup>15</sup> N, 98%)	Please inquire
CNLM-6077	L-Tryptophan-N-FMOC ( <sup>13</sup> C <sub>11</sub> , 97-99%; <sup>15</sup> N <sub>2</sub> , 97-99%)	0.1 g
CLM-2194	L-Tryptophan-N-t-BOC (1- <sup>13</sup> C, 99%)	Please inquire
CNLM-4349-H	L-Tyrosine-N-FMOC, O-t-butyl ether ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g
NLM-8169	L-Tyrosine-N-FMOC, O-t-butyl ether ( <sup>15</sup> N, 98%)	0.1 g
DLM-2303	L-Tyrosine-N-t-BOC, O-Bz ether (ring-D <sub>4</sub> , 98%)	0.25 g
NLM-1906	L-Tyrosine-N-t-BOC, O-Bz ether ( <sup>15</sup> N, 98%)	0.25 g
CLM-3640	L-Valine-N-FMOC (1- <sup>13</sup> C, 99%)	1 g
CLM-7793	L-Valine-N-FMOC ( <sup>13</sup> C <sub>5</sub> , 97-99%)	0.1 g
DLM-7784	L-Valine-N-FMOC (D <sub>8</sub> , 98%)	0.5 g
NLM-4243	L-Valine-N-FMOC ( <sup>15</sup> N, 98%)	1 g
CNLM-4348-H	L-Valine-N-FMOC ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g
CLM-2158	L-Valine-N-t-BOC (1- <sup>13</sup> C, 99%)	Please inquire
DLM-3651	L-Valine-N-t-BOC (D <sub>8</sub> , 98%)	0.5 g
NLM-2060	L-Valine-N-t-BOC ( <sup>15</sup> N, 98%)	0.5 g, 1 g
CNLM-2395	L-Valine-N-t-BOC ( <sup>13</sup> C <sub>5</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.05 g

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Bile Acids (Neat)

Catalog No.	Description	Abbreviation	Unit Size
CLM-2709	Chenodeoxycholic acid (24- <sup>13</sup> C, 99%)	CDCA	0.1 g, 0.5 g
DLM-6780	Chenodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	CDCA	50 mg
DLM-9327	Chenodeoxycholic acid (2,2,3,4,4-D <sub>5</sub> , 98%)	CDCA	0.1 g, 0.05 g
DLM-9541	Chenodeoxycholic acid (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%)	CDCA	10 mg
ULM-9540	Chenodeoxycholic acid (unlabeled)	CDCA	50 mg
CLM-2710	Cholic acid (24- <sup>13</sup> C, 99%)	CA	0.1 g, 0.5 g
DLM-2611	Cholic acid (2,2,4,4-D <sub>4</sub> , 98%)	CA	50 mg
DLM-9549	Cholic acid (2,2,3,4,4-D <sub>5</sub> , 98%)	CA	50 mg
ULM-9543	Cholic acid (unlabeled)	CA	50 mg
CLM-3364	Deoxycholic acid (24- <sup>13</sup> C, 98%) CP 97%	DCA	0.1 g, 0.5 g
DLM-2824	Deoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	DCA	10 mg
DLM-9546	Deoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	DCA	10 mg
ULM-9545	Deoxycholic acid (unlabeled)	DCA	50 mg
DLM-7804	Glycochenodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	GCDCA	10 mg
DLM-9550	Glycochenodeoxycholic acid (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%) CP 97%	GCDCA	10 mg
ULM-9942	Glycochenodeoxycholic acid, sodium salt (unlabeled)	GCDCA	10 mg
CLM-191	Glycocholic acid (glycine-1- <sup>13</sup> C, 99%)	GCA	Please inquire
DLM-2742	Glycocholic acid (2,2,4,4-D <sub>4</sub> , 98%) (contains ~4% water)	GCA	10 mg
ULM-9551	Glycocholic acid hydrate (unlabeled)	GCA	50 mg
DLM-9554	Glycodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	GDCA	10 mg
DLM-9553	Glycodeoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	GDCA	10 mg
ULM-9552	Glycodeoxycholic acid, sodium salt (unlabeled)	GDCA	50 mg
DLM-9556	Glycolithocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	GLCA	10 mg
ULM-9555	Glycolithocholic acid (unlabeled)	GLCA	50 mg
DLM-9558	Glycoursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	GUDCA	10 mg
CNLM-10252	Glycoursodeoxycholic acid (glycine- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	GUDCA	10 mg
ULM-9557	Glycoursodeoxycholic acid (unlabeled)	GUDCA	50 mg
DLM-9560	Lithocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	LCA	50 mg
ULM-9559	Lithocholic acid (unlabeled)	LCA	50 mg
DLM-10627	α-Muricholic acid (2,2,3,4,4-D <sub>5</sub> , 99%)	MCA (α)	1 mg
ULM-10621	α-Muricholic acid (unlabeled)	MCA (α)	1 mg
DLM-10626	β-Muricholic acid (2,2,3,4,4-D <sub>5</sub> , 99%)	MCA (β)	1 mg
ULM-10620	β-Muricholic acid (unlabeled)	MCA (β)	1 mg
DLM-10628	γ-Muricholic acid (2,2,3,4,4-D <sub>5</sub> , 99%)	MCA (γ)	2 mg
ULM-10622	γ-Muricholic acid (unlabeled)	MCA (γ)	1 mg
DLM-10629	ω-Muricholic acid (2,2,3,4,4-D <sub>5</sub> , 99%)	MCA (ω)	1 mg
ULM-10623	ω-Muricholic acid (unlabeled)	MCA (ω)	1 mg
DLM-9562	Taurochenodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	TCDCA	10 mg
DLM-9563	Taurochenodeoxycholic acid, sodium salt (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%)	TCDCA	5 mg
ULM-9561	Taurochenodeoxycholic acid, sodium salt (unlabeled)	TCDCA	50 mg
DLM-9572	Taurocholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TCA	10 mg
CNLM-10251	Taurocholic acid, sodium salt (taurine- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	TCA	10 mg
ULM-9571	Taurocholic acid, sodium salt hydrate (unlabeled) CP 97%	TCA	50 mg
DLM-9568	Taurodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TDCA	10 mg
DLM-9567	Taurodeoxycholic acid, sodium salt (2,2,4,4,11,11-D <sub>6</sub> , 98%)	TDCA	5 mg
ULM-9943	Taurodeoxycholic acid, sodium salt hydrate (unlabeled)	TDCA	50 mg
DLM-9570	Taurolithocholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TLCA	10 mg
ULM-9569	Taurolithocholic acid, sodium salt (unlabeled)	TLCA	50 mg
DLM-9882	Tauroursodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TUDCA	10 mg
CNLM-10250	Tauroursodeoxycholic acid, sodium salt (taurine- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	TUDCA	10 mg
ULM-9885	Tauroursodeoxycholic acid, dihydrate (unlabeled)	TUDCA	50 mg
DLM-9574	Ursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%) CP 95%	UDCA	50 mg
ULM-9573	Ursodeoxycholic acid (unlabeled)	UDCA	50 mg

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## Bile Acids (Solution)

Catalog No.	Description	Abbreviation	Concentration	Unit Size
DLM-6780-C	Chenodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	CDCA	100 µg/mL in methanol	1 mL
DLM-9541-C	Chenodeoxycholic acid (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%)	CDCA	100 µg/mL in methanol	1 mL
DLM-2611-C	Cholic acid (2,2,4,4-D <sub>4</sub> , 98%)	CA	100 µg/mL in methanol	1 mL
DLM-2824-C	Deoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	DCA	100 µg/mL in methanol	1 mL
DLM-9546-C	Deoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	DCA	100 µg/mL in methanol	1 mL
DLM-7804-C	Glycochenodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	GCDCA	100 µg/mL in methanol	1 mL
DLM-9550-C	Glycochenodeoxycholic acid (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%) CP 97%	GCDCA	100 µg/mL in methanol	1 mL
DLM-2742-C	Glycocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	GCA	100 µg/mL in methanol	1 mL
DLM-9554-C	Glycodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	GDCA	100 µg/mL in methanol	1 mL
DLM-9553-C	Glycodeoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	GDCA	100 µg/mL in methanol	1 mL
DLM-9556-C	Glycolithocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	GLCA	100 µg/mL in methanol	1 mL
DLM-9558-C	Glycoursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	GUDCA	100 µg/mL in methanol	1 mL
DLM-9560-C	Lithocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	LCA	100 µg/mL in methanol	1 mL
DLM-9562-C	Taurochenodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	TCDCA	100 µg/mL in methanol	1 mL
DLM-9563-C	Taurochenodeoxycholic acid, sodium salt (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%)	TCDCA	100 µg/mL in methanol	1 mL
DLM-9572-C	Taurocholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TCA	100 µg/mL in methanol	1 mL
DLM-9568-C	Taurodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TDCA	100 µg/mL in methanol	1 mL
DLM-9567-C	Taurodeoxycholic acid, sodium salt (2,2,4,4,11,11-D <sub>6</sub> , 98%)	TDCA	100 µg/mL in methanol	1 mL
DLM-9570-C	Taurolithocholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TLCA	100 µg/mL in methanol	1 mL
DLM-9882-C	Tauroursodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	TUDCA	100 µg/mL in methanol	1 mL
DLM-9574-C	Ursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	UDCA	100 µg/mL in methanol	1 mL

## Caffeine and Its Metabolites

Catalog No.	Description	Unit Size
CNLM-9240	5-Acetylaminio-6-amino-3-methyluracil (AAMU) (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 6-amino- <sup>15</sup> N, 98%) CP 97%	1 mg, 2 mg, 5 mg
CLM-728	Caffeine (3-methyl- <sup>13</sup> C, 99%)	0.5 g
CLM-514	Caffeine (trimethyl- <sup>13</sup> C <sub>3</sub> , 99%)	1 g
NLM-332	Caffeine (1,3- <sup>15</sup> N <sub>2</sub> , 99%)	Please inquire
CNLM-333	Caffeine (2- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	0.1 g
CNLM-9241	1,3-Dimethyluric acid (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	1 mg, 2 mg, 5 mg
CNLM-9242	1,7-Dimethyluric acid (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	1 mg, 2 mg, 5 mg
DLM-9245	1,7-Dimethylxanthine (paraxathine) (dimethyl-D <sub>6</sub> , 98%)	2 mg, 5 mg
CNLM-9243	1,7-Dimethylxanthine (paraxanthine) (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	2 mg, 5 mg
CLM-522	Ethyl acetoacetate (1,3- <sup>13</sup> C <sub>2</sub> , 99%)	0.5 g, 1 g
CLM-523	Ethyl acetoacetate (2,4- <sup>13</sup> C <sub>2</sub> , 99%)	0.5 g, 1 g
CNLM-9246	1-Methyluric acid (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	Please inquire
CNLM-9247	3-Methyluric acid (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	2 mg, 5 mg
CNLM-9248	7-Methyluric acid (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	Please inquire
CDLM-9249	1-Methylxanthine (1-methyl, 6- <sup>13</sup> C <sub>2</sub> , 99%; 1-methyl-D <sub>3</sub> , 98%) CP 97%	1 mg, 5 mg
CNLM-9252	1-Methylxanthine (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	2 mg, 5 mg
CNLM-9250	3-Methylxanthine (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	2 mg, 5 mg
CNLM-9251	7-Methylxanthine (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	Please inquire
DLM-10436	Theobromine (3,7-dimethylxanthine) (7-methyl-D <sub>3</sub> , 98%)	Please inquire
DLM-8565	Theobromine (3,7-dimethylxanthine) (dimethyl-D <sub>6</sub> , 98%)	5 mg
CLM-6154	Theophylline (dimethyl- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
CNLM-444	Theophylline (2- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	0.05 g
CNLM-9253	1,3,7-Trimethyluric acid (2,4,5,6- <sup>13</sup> C <sub>4</sub> , 99%; 1,3,9- <sup>15</sup> N <sub>3</sub> , 98%)	2 mg, 5 mg

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## Carbohydrates

Catalog No.	Description	Unit Size
CLM-1220	N-Acetylglucosamine (N-acetyl-1- <sup>13</sup> C, 99%)	Please inquire
CLM-1827	N-Acetylglucosamine ( <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
NLM-8810	N-Acetylglucosamine ( <sup>15</sup> N, 98%)	0.1 g
CLM-1699	Algal starch (U- <sup>13</sup> C, 98%)	0.1 g, 0.5 g, 1 g
ULM-7806	Algal starch (unlabeled)	1 g
CLM-7642	D-Arabinitol (U- <sup>13</sup> C <sub>5</sub> , 98%)	Please inquire
CLM-715	D-Arabinose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1288	D-Arabinose (2- <sup>13</sup> C, 98%)	0.25 g, 0.5 g, 1 g
CLM-8477	D-Arabinose (U- <sup>13</sup> C <sub>5</sub> , 99%)	Please inquire
DLM-1379	D-Arabinose (2-D, 98%)	Please inquire
CLM-7266	2-Deoxyribose (1- <sup>13</sup> C, 99%)	Please inquire
CLM-9207	Erythritol (U- <sup>13</sup> C <sub>4</sub> , 99%)	Please inquire
CLM-1118	D-Erythroose (1- <sup>13</sup> C, 99%) 1.2% in H <sub>2</sub> O	Please inquire
CLM-1387	D-Erythroose (2- <sup>13</sup> C, 99%) 1.2% in H <sub>2</sub> O	Please inquire
CLM-8944	D-Erythroose (4- <sup>13</sup> C, 99%) 1.2% in H <sub>2</sub> O	Please inquire
CLM-7863	D-Erythroose (U- <sup>13</sup> C <sub>4</sub> , 98%) 1.2% in H <sub>2</sub> O	Please inquire
CLM-1201	D-Fructose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1527	D-Fructose (2- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-7660	D-Fructose (3- <sup>13</sup> C, 99%)	Please inquire
CLM-7661	D-Fructose (4- <sup>13</sup> C, 99%)	Please inquire
CLM-7662	D-Fructose (5- <sup>13</sup> C, 99%)	Please inquire
CLM-1388	D-Fructose (6- <sup>13</sup> C, 99%)	Please inquire
CLM-2462	D-Fructose (1- <sup>13</sup> C, 99%; 6- <sup>13</sup> C, 97%)	Please inquire
CLM-528	D-Fructose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-10546	D-Fructose (4,5- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-8415	D-Fructose (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%)	Please inquire
CLM-10223	D-Fructose (4,5,6- <sup>13</sup> C <sub>3</sub> , 98%)	Please inquire
CLM-1553	D-Fructose (U- <sup>13</sup> C <sub>6</sub> , 99%)	0.1 g, 0.25 g, 0.5 g, 1 g
CLM-1553-MPT	D-Fructose (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
DLM-6050	D-Fructose (1-D, 97%)	Please inquire
DLM-1389	D-Fructose (6,6-D <sub>2</sub> , 98%)	Please inquire
CLM-8962	D-Fructose-1,6-bisphosphate, disodium salt·H <sub>2</sub> O (U- <sup>13</sup> C <sub>6</sub> , 98%)	Please inquire
CLM-6678	D-Fructose-1,6-bisphosphate, sodium salt hydrate (1- <sup>13</sup> C, 99%)	Please inquire
CLM-8616	D-Fructose-6-phosphate·2Na <sup>+</sup> ·xH <sub>2</sub> O ( <sup>13</sup> C <sub>6</sub> , 99%) may contain up to ~10% <sup>13</sup> C <sub>6</sub> glucose-6-phosphate	Please inquire
CLM-3705	L-Fucose (1'- <sup>13</sup> C, 99%)	Please inquire
CLM-219	L-Fucose (6- <sup>13</sup> C, 99%)	Please inquire
CLM-9605	L-Fucose (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-529	D-Galactitol (1- <sup>13</sup> C, 99%)	Please inquire
CLM-744	D-Galactose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-745	D-Galactose (2- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-4217	D-Galactose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-1570	D-Galactose (U- <sup>13</sup> C <sub>6</sub> , 99%)	0.1 g
DLM-1390	D-Galactose (1-D, 98%)	0.5 g, 1 g
DLM-1391	D-Galactose (2-D, 98%)	Please inquire
CLM-8998	D-Galactose-1-phosphate, dipotassium salt (1- <sup>13</sup> C, 99%)	0.01 g, 0.05 g, 0.1 g
CLM-9873	D-Galactose-1-phosphate, dipotassium salt (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-9874	D-Galactose-1-phosphate, dipotassium salt (galactose- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-9452	α-D-Glucopyranosyl-1-phosphate, dipotassium salt, monohydrate ( <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-4819	D-Glucose (U- <sup>12</sup> C <sub>6</sub> , 99.9%)	1 g
CLM-420	D-Glucose (1- <sup>13</sup> C, 98-99%)	0.25 g, 0.5 g, 1 g, 5 g, 10 g
CLM-746	D-Glucose (2- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1393	D-Glucose (3- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1394	D-Glucose (4- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g

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**Carbohydrates** (continued)

Catalog No.	Description	Unit Size
CLM-1395	D-Glucose (5- <sup>13</sup> C, 98%)	0.25 g, 0.5 g, 1 g
CLM-481	D-Glucose (6- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-2717	D-Glucose (1- <sup>13</sup> C, 99%; 6- <sup>13</sup> C, 97%)	0.1 g, 0.25 g, 1 g
CLM-504	D-Glucose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g, 0.5 g, 1 g
CLM-8942	D-Glucose (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-6750	D-Glucose (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-8787	D-Glucose (4,5- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-4673	D-Glucose (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%)	0.05 g, 0.1 g
CLM-8770	D-Glucose (4,5,6- <sup>13</sup> C <sub>3</sub> , 98%)	Please inquire
CLM-8946	D-Glucose (2,3,4,5,6- <sup>13</sup> C <sub>5</sub> , 99%)	Please inquire
CLM-1396	D-Glucose (U- <sup>13</sup> C <sub>6</sub> , 99%)	0.1 g, 0.25 g, 0.5 g, 1 g, 2 g, 5 g, 10 g, 25 g, 50 g
CLM-1396-MPT	D-Glucose (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-1396-25	D-Glucose ( <sup>13</sup> C <sub>6</sub> , 24-25%)	1 g
DLM-1150	D-Glucose (1-D, 98%)	0.25 g, 0.5 g, 1 g
DLM-1271	D-Glucose (2-D, 98%)	0.25 g, 0.5 g, 1 g
DLM-3557	D-Glucose (3-D, 97-98%)	0.1 g, 0.5 g
DLM-9294	D-Glucose (4-D, 98%)	Please inquire
DLM-6754	D-Glucose (5-D, 98%)	Please inquire
DLM-349	D-Glucose (6,6-D <sub>2</sub> , 99%)	0.1 g, 0.25 g, 0.5 g, 1 g, 5 g, 10 g
DLM-349-MPT	D-Glucose (6,6-D <sub>2</sub> , 99%)	Please inquire
DLM-2062	D-Glucose (1,2,3,4,5,6,6-D <sub>7</sub> , 97-98%)	0.5 g, 1 g
DLM-9047	D-Glucose (U-D <sub>12</sub> , 98%)	1 g
CDLM-6064	D-Glucose (1- <sup>13</sup> C, 99%; 1-D, 98%)	Please inquire
CDLM-999	D-Glucose (1- <sup>13</sup> C, 98%; 2-D, 98%)	0.1 g
CDLM-4895	D-Glucose (1- <sup>13</sup> C, 99%; 6- <sup>13</sup> C, 97%; 6,6-D <sub>2</sub> , 98%)	Please inquire
CDLM-3813	D-Glucose (U- <sup>13</sup> C <sub>6</sub> , 99%; 1,2,3,4,5,6,6-D <sub>7</sub> , 97-98%)	1 g, 2 g, 10 g
CDLM-3813-MPT	D-Glucose (U- <sup>13</sup> C <sub>6</sub> , 99%; 1,2,3,4,5,6,6-D <sub>7</sub> , 97-98%)	Please inquire
CLM-8813	D-Glucose-1-phosphate, dicyclohexylammonium salt monohydrate (U- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	Please inquire
CLM-8367	D-Glucose-6-phosphate, disodium salt hydrate (U- <sup>13</sup> C <sub>6</sub> , 99%)	0.05 g, 0.1 g
CLM-1966	L-Glucose (1- <sup>13</sup> C, 99%)	Please inquire
CLM-1399	L-Glucose (2- <sup>13</sup> C, 99%)	Please inquire
CLM-1824	2-deoxy-D-Glucose (1- <sup>13</sup> C, 99%)	0.1 g, 0.25 g
CLM-2122	2-deoxy-D-Glucose (6- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-10466	2-deoxy-D-Glucose (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
DLM-6732	2-deoxy-D-Glucose (1-D, 98%)	Please inquire
DLM-6940	2-deoxy-D-Glucose (D <sub>8</sub> , 98%)	Please inquire
CLM-9601	2-deoxy-D-Glucose-6-phosphate, disodium salt (6- <sup>13</sup> C, 99%)	Please inquire
CLM-10491	3-O-methyl-D-Glucose ( <sup>12</sup> C <sub>6</sub> , 99.99%) <sup>13</sup> C depleted	Please inquire
CLM-10492	3-O-methyl-D-Glucose ( <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-9883	D-Glucosamine-HCl ( <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
DLM-7826	myo-Inositol (2-D, 91%)	Please inquire
DLM-2725	myo-Inositol (1,2,3,4,5,6-D <sub>6</sub> , 98%)	Please inquire
CLM-4518	Lactose ureide·XH <sub>2</sub> O (ureide- <sup>13</sup> C, 99%)	1 g, 10 g
ULM-4519	Lactose ureide·2H <sub>2</sub> O (unlabeled)	10 g
CLM-4423	Lactose·H <sub>2</sub> O (glucose- <sup>13</sup> C <sub>6</sub> , 98%)	Please inquire
CLM-1127	D-Lyxose (1- <sup>13</sup> C, 99%)	Please inquire
CLM-1525	D-Lyxose (2- <sup>13</sup> C, 99%)	Please inquire
CLM-1128	D-Lyxose (5- <sup>13</sup> C, 99%)	Please inquire
DLM-1187	D-Lyxose (1-D, 98%)	Please inquire
DLM-1188	D-Lyxose (2-D, 98%)	Please inquire
CLM-2470	L-Lyxose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-2642	D-Maltose·H <sub>2</sub> O (U- <sup>13</sup> C <sub>12</sub> , 99%)	Please inquire

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
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Catalog No.	Description	Unit Size
CLM-1189	D-Mannitol (1- <sup>13</sup> C, 98%)	0.25 g, 0.5 g, 1 g
CLM-4416	D-Mannitol (2- <sup>13</sup> C, 99%)	Please inquire
CLM-10764	D-Mannitol (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-6733	D-Mannitol (U- <sup>13</sup> C <sub>6</sub> , 99%)	0.1 g
CLM-9393	L-Mannitol (1- <sup>13</sup> C, 99%)	Please inquire
CLM-358	D-Mannose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1523	D-Mannose (2- <sup>13</sup> C, 99%)	Please inquire
CLM-9064	D-Mannose (3- <sup>13</sup> C, 99%)	Please inquire
CLM-9394	D-Mannose (4- <sup>13</sup> C, 99%)	Please inquire
CLM-9063	D-Mannose (5- <sup>13</sup> C, 99%)	Please inquire
CLM-6567	D-Mannose (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
DLM-1193	D-Mannose (1-D, 98%)	Please inquire
DLM-1194	D-Mannose (2-D, 98%)	Please inquire
DLM-1195	D-Mannose (6,6-D <sub>2</sub> , 98%)	Please inquire
CLM-1218	L-Mannose (1- <sup>13</sup> C, 99%)	Please inquire
CLM-10568	L-Rhamnose-H <sub>2</sub> O (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-1196	D-Ribitol (1- <sup>13</sup> C, 99%)	Please inquire
CLM-768	D-Ribose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1069	D-Ribose (2- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1066	D-Ribose (5- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-4602	D-Ribose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-4830	D-Ribose (2,3,4,5- <sup>13</sup> C <sub>4</sub> , 99%)	Please inquire
CLM-3652	D-Ribose (U- <sup>13</sup> C <sub>5</sub> , 98%)	0.1 g
DLM-1070	D-Ribose (1-D, 98%)	0.25 g, 0.5 g, 1 g
DLM-1197	D-Ribose (2-D, 98%)	0.25 g, 0.5 g, 1 g
DLM-6559	D-Ribose (3-D, 98%)	Please inquire
DLM-7778	D-Ribose (5,5-D <sub>2</sub> , 98%)	Please inquire
DLM-4750	2-Deoxy-D-ribose (5,5-D <sub>2</sub> , 98%)	Please inquire
CLM-8780	Sodium D-gluconate (1- <sup>13</sup> C, 99%)	Please inquire
CLM-8781	Sodium D-gluconate (U- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-1565	D-Sorbitol monohydrate or semihydrate (1- <sup>13</sup> C, 99%)	Please inquire
CLM-8529	D-Sorbitol (U- <sup>13</sup> C <sub>6</sub> , 98%)	Please inquire
DLM-3320	Sorbitol (1,1'-D <sub>2</sub> , 98%)	Please inquire
CLM-9811	D-Sucrose (fructose- <sup>13</sup> C <sub>6</sub> , 98%)	Please inquire
CLM-8091	D-Sucrose (glucose- <sup>13</sup> C <sub>6</sub> , 98%)	Please inquire
CLM-7757	D-Sucrose ( <sup>13</sup> C <sub>12</sub> , 98%)	Please inquire
CLM-1203	D-Talitol (1- <sup>13</sup> C, 99%)	Please inquire
CLM-1204	D-Talose (2- <sup>13</sup> C, 99%)	Please inquire
CLM-1139	D-Threose (1- <sup>13</sup> C, 99%) 1.8% in H <sub>2</sub> O	Please inquire
CLM-1207	D-Threose (2- <sup>13</sup> C, 99%) 1.8% in H <sub>2</sub> O	Please inquire
CLM-10513	Uridine diphosphate- $\alpha$ -D-glucose, disodium salt (glucose- <sup>13</sup> C <sub>6</sub> , 99%)	Please inquire
CLM-1295	D-Xylitol (1- <sup>13</sup> C, 99%)	Please inquire
CLM-1214	D-Xylitol (5- <sup>13</sup> C, 99%)	Please inquire
CLM-7608	D-Xylitol (U- <sup>13</sup> C <sub>5</sub> , 99%)	Please inquire
CLM-1140	D-Xylose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-1524	D-Xylose (2- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-8593	D-Xylose (3- <sup>13</sup> C, 99%)	Please inquire
CLM-9083	D-Xylose (4- <sup>13</sup> C, 99%)	Please inquire
CLM-1219	D-Xylose (5- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-2456	D-Xylose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.25 g, 0.5 g, 1 g
CLM-6140	D-Xylose (U- <sup>13</sup> C <sub>5</sub> , 99%)	0.25 g, 0.5 g, 1 g
DLM-1215	D-Xylose (1-D, 99%)	Please inquire
DLM-1216	D-Xylose (2-D, 98%)	Please inquire
DLM-7121	D-Xylose (D <sub>6</sub> , 98%)	Please inquire

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## Carnitine/Acylcarnitines

Catalog No.	Description	Abbreviation	Unit Size
DLM-3555	L-Carnitine (trimethyl-D <sub>9</sub> , 98%)	C0	5 mg
ULM-7801	L-Carnitine (unlabeled)	C0	Please inquire
DLM-1871	L-Carnitine·HCl (methyl-D <sub>3</sub> , 98%)	C0	0.1 g
DLM-3820	L-Carnitine·HCl (dimethyl-D <sub>6</sub> , 98%)	C0	Please inquire
ULM-9173	L-Carnitine·HCl (unlabeled)	C0	Please inquire
ULM-10431	DL-Carnitine·HCl, O-acetyl (unlabeled)	C2	Please inquire
DLM-754	L-Carnitine·HCl, O-acetyl (N-methyl-D <sub>3</sub> , 98%)	C2	0.05 g
DLM-3821	L-Carnitine·HCl, O-acetyl (N,N-dimethyl-D <sub>6</sub> , 98%) CP 97%	C2	Please inquire
ULM-7802	L-Carnitine·HCl, O-acetyl (unlabeled)	C2	Please inquire
DLM-3973	L-Carnitine·HCl, O-propionyl (N-methyl-D <sub>3</sub> , 98%)	C3	10 mg
ULM-7705	L-Carnitine·HCl, O-propionyl (unlabeled)	C3	Please inquire
ULM-8743	L-Carnitine·ClO <sub>4</sub> , O-malonyl (unlabeled) CP 97%	C3-DC	0.1 mg
DLM-3861	L-Carnitine·HCl, O-butyryl (N-methyl-D <sub>3</sub> , 98%)	C4	0.01 g
ULM-7704	L-Carnitine·HCl, O-butyryl (unlabeled)	C4	Please inquire
ULM-8621	L-Carnitine (mono)·ClO <sub>4</sub> , O-3-DL-hydroxybutyryl (unlabeled)	C4-OH	0.1 mg
DLM-3974	L-Carnitine·HCl, O-isovaleryl (N,N,N-trimethyl-D <sub>9</sub> , 98%)	C5	Please inquire
ULM-4697	L-Carnitine·HCl, O-isovaleryl (unlabeled)	C5	Please inquire
DLM-3975	L-Carnitine (mono)·ClO <sub>4</sub> , O-glutaryl (N-methyl-D <sub>3</sub> , 98%) CP 97%	C5-DC	0.1 mg
ULM-7594	L-Carnitine (mono)·ClO <sub>4</sub> , O-glutaryl (unlabeled)	C5-DC	0.1 mg
DLM-8272	L-Carnitine·ClO <sub>4</sub> , 3-hydroxyisovaleryl (N-methyl-D <sub>3</sub> , 98%)	C5-OH	1 mg
ULM-8237	L-Carnitine·ClO <sub>4</sub> , 3-hydroxyisovaleryl (unlabeled)	C5-OH	0.1 mg
DLM-9276	L-Carnitine·HCl, O-hexanoyl (N-methyl-D <sub>3</sub> , 98%)	C6	0.1 mg
ULM-7198	L-Carnitine·HCl, O-hexanoyl (unlabeled)	C6	Please inquire
DLM-755	L-Carnitine·HCl, O-octanoyl (N-methyl-D <sub>3</sub> , 98%)	C8	10 mg
ULM-7770	L-Carnitine·HCl, O-octanoyl (unlabeled)	C8	Please inquire
DLM-9067	L-Carnitine·HCl, O-decanoyl (N-methyl-D <sub>3</sub> , 98%)	C10	0.1 mg
ULM-7195	L-Carnitine·HCl, O-decanoyl (unlabeled)	C10	Please inquire
DLM-8746	L-Carnitine·HCl, O-2-decenoyl (N,N,N-trimethyl-D <sub>9</sub> , 98%) (95% E)	C10:1	Please inquire
ULM-8198	L-Carnitine·HCl, O-2-decenoyl (unlabeled)	C10:1	0.1 mg
DLM-8162	L-Carnitine·HCl, O-dodecanoyl (N-methyl-D <sub>3</sub> , 98%)	C12	0.1 mg
DLM-8215	L-Carnitine·HCl, O-dodecanoyl (N,N,N-trimethyl-D <sub>9</sub> , 98%)	C12	Please inquire
ULM-7199	L-Carnitine·HCl, O-dodecanoyl (unlabeled)	C12	0.1 mg
DLM-4425	L-Carnitine·HCl, O-myristoyl (N,N,N-trimethyl-D <sub>9</sub> , 98%)	C14	5 mg
ULM-7737	L-Carnitine·HCl, O-myristoyl (unlabeled)	C14	Please inquire
ULM-8744	L-Carnitine·HCl, O-tetradec-2-enoyl (unlabeled, 90% E)	C14:1	Please inquire
ULM-10433	DL-Carnitine·HCl, O-palmitoyl (unlabeled) CP 97%	C16	Please inquire
DLM-1263	L-Carnitine·HCl, O-palmitoyl (N-methyl-D <sub>3</sub> , 98%)	C16	10 mg
ULM-7738	L-Carnitine·HCl, O-palmitoyl (unlabeled)	C16	Please inquire
DLM-9189	L-Carnitine (mono)·ClO <sub>4</sub> , O-3-DL-hydroxypalmitoyl (N-methyl-D <sub>3</sub> , 98%)	C16-OH	0.1 mg
ULM-8620	L-Carnitine (mono)·ClO <sub>4</sub> , O-3-DL-hydroxypalmitoyl (unlabeled) CP 97%	C16-OH	0.1 mg
ULM-10432	DL-Carnitine·HCl, O-octanoyl (unlabeled)	C18	Please inquire
DLM-8271	L-Carnitine·HCl, O-octadecanoyl (N-methyl-D <sub>3</sub> , 98%)	C18	Please inquire
ULM-7196	L-Carnitine·HCl, O-octadecanoyl (unlabeled) CP 97%	C18	0.1 mg
DLM-6718	L-Carnitine·HCl, O-hexacosanoyl (N-methyl-D <sub>3</sub> , 98%) CP 95%	C26	Please inquire
ULM-6719	L-Carnitine·HCl, O-hexacosanoyl (unlabeled) CP 95%	C26	Please inquire

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## Drugs and Their Metabolites

Available from CIL for customers in the US, Australia, Canada, and Switzerland. Contact us for sourcing details from other destinations.

Catalog No.	Description	Concentration	Unit Size
CLM-2436	Acetaminophen (carbonyl- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-10619	Acetaminophen (ring- <sup>13</sup> C <sub>6</sub> , 98%)	neat	1 mg
P-909	Acetominophen (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
CNLM-3726	Acetominophen (acetyl- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	neat	1 g
ULM-7629	Acetominophen (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
A-053	6-Acetylcodeine (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-006	6-Acetylmorphine (D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
A-010	6-Acetylmorphine (D <sub>3</sub> , 98%)	1000 µg/mL in acetonitrile	1 mL
A-027	6-Acetylmorphine (D <sub>6</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
A-026	6-Acetylmorphine (D <sub>6</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
A-003	6-Acetylmorphine (unlabeled)	100 µg/mL in acetonitrile	1 mL
A-009	6-Acetylmorphine (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-140	Acryl fentanyl-HCl (unlabeled)	100 µg/mL in methanol (as free base)	0.5 mL
DLM-10575	Aldox (D <sub>6</sub> , 98%) CP 96%	neat	Please inquire
DLM-10574	Alexidine·2HCl (D <sub>10</sub> , 98%) CP 97%	neat	Please inquire
A-113	AH-7921·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
A-071	Alfentanil·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
A-910	Alprazolam (D <sub>5</sub> , 98%)	1 mg/mL in methanol	1 mL
A-902	Alprazolam (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
A-903	Alprazolam (unlabeled)	1000 µg/mL in methanol	1 mL
S-059	AM2201 4-Hydroxypentyl metabolite (unlabeled)	100 µg/mL in methanol	1 mL
A-050	Amine Mixture-6 (unlabeled)	250 µg/mL in methanol	1 mL
A-924	7-Aminoclonazepam (D <sub>4</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
A-917	7-Aminoclonazepam (D <sub>4</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
A-915	7-Aminoclonazepam (unlabeled)	100 µg/mL in acetonitrile	1 mL
A-916	7-Aminoclonazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-925	7-Aminofunitrazepam (D <sub>7</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
A-921	7-Aminofunitrazepam (D <sub>7</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
A-911	7-Aminofunitrazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-912	7-Aminofunitrazepam (unlabeled)	100 µg/mL in acetonitrile	1 mL
A-913	7-Aminonitrazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-914	7-Aminonitrazepam (unlabeled)	100 µg/mL in acetonitrile	1 mL
A-040	Aminorex (unlabeled)	1 mg/mL in acetonitrile	1 mL
CLM-630	Aminopyrine (N,N-dimethyl- <sup>13</sup> C <sub>2</sub> , 99%)	neat	1 g
A-083	Amiodarone·HCl (D <sub>4</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
A-060	Amiodarone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
A-085	Amitriptyline·HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
A-121	Amitriptyline·HCl (D <sub>3</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
DLM-2762	Amitriptyline·HCl (N-methyl-D <sub>3</sub> , 98%)	neat	Please inquire
A-923	Amitriptyline·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
A-102	Amobarbital (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
A-020	Amobarbital (unlabeled)	1 mg/mL in methanol	1 mL
A-002	(±)-Amphetamine (ring-D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
A-005	(±)-Amphetamine (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
A-013	(±)-Amphetamine (D <sub>5</sub> , 98%)	1000 µg/mL in methanol	1 mL
A-038	(±)-Amphetamine (D <sub>10</sub> , 98%)	100 µg/mL in methanol	1 mL
A-008	(±)-Amphetamine (unlabeled)	1 mg/mL in methanol	1 mL
A-011	(±)-Amphetamine (unlabeled)	100 µg/mL in methanol	1 mL
A-044	DL-Amphetamine (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
A-045	DL-Amphetamine (D <sub>6</sub> , 98%)	1000 µg/mL in methanol	1 mL
A-017	DL-Amphetamine (D <sub>8</sub> , 98%)	100 µg/mL in methanol	1 mL
A-018	DL-Amphetamine (D <sub>8</sub> , 98%)	1000 µg/mL in methanol	1 mL

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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
A-016	DL-Amphetamine (D <sub>11</sub> , 98%)	100 µg/mL in methanol	1 mL
A-019	DL-Amphetamine (D <sub>11</sub> , 98%)	1000 µg/mL in methanol	1 mL
A-007	DL-Amphetamine (unlabeled)	1000 µg/mL in methanol	1 mL
A-049	R(-) Amphetamine (unlabeled)	1 mg/mL in methanol	1 mL
CLM-10387-B	DL-Amphetamine-HCl (ring- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
A-100	Anabasine-HCl (D <sub>4</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
A-075	Androstenedione (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-034	Anhydroecgonine methyl ester (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-139	4-ANPP (unlabeled)	100 µg/mL in methanol	0.5 mL
S-088	Apinaca (AKB-48) 5-hydroxypentyl metabolite (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
S-087	Apinaca (AKB-48) 5-hydroxypentyl metabolite (unlabeled)	100 µg/mL in methanol	1 mL
A-081	Aripiprazole (D <sub>8</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
A-119	Aripiprazole (unlabeled)	1 mg/mL in methanol:water (1:1) with 1% 1 N HCl	1 mL
CLM-6585	Aspirin (acetyl-1- <sup>13</sup> C, 99%)	neat	Please inquire
A-072	Atenolol (unlabeled)	1 mg/mL in acetonitrile	1 mL
A-046	Atropine (unlabeled)	1 mg/mL in methanol	1 mL
CLM-3655	AZT (methyl- <sup>13</sup> C, 99%) CP 96%	neat	10 mg
B-067	(±)-Baclofen (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
B-041	Barbiturate mix-5 (unlabeled)	250 µg/mL in methanol	1 mL
CLM-10608	1,2-Benzisothiazol-3(2H)-one (ring- <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
B-033	Benzodiazepine Multi-Component Mixture-8 (unlabeled)	250 µg/mL in acetonitrile	1 mL
B-001	Benzoyllecgonine (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
B-008	Benzoyllecgonine (D <sub>3</sub> , 98%)	1000 µg/mL in methanol	1 mL
B-013	Benzoyllecgonine (D <sub>8</sub> , 98%)	100 µg/mL in methanol	1 mL
B-014	Benzoyllecgonine (D <sub>8</sub> , 98%)	1 mg/mL in methanol	1 mL
B-007	Benzoyllecgonine (unlabeled)	100 µg/mL in methanol	1 mL
B-004	Benzoyllecgonine (unlabeled)	1000 µg/mL in methanol	1 mL
DLM-1566	Benztropine mesylate (N-methyl-D <sub>3</sub> , 98%) CP 95%	neat	10 mg
B-907	Benzyl piperazine-2HCl (D <sub>7</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
B-906	Benzyl piperazine-2HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
B-903	Bromazepam (unlabeled)	1 mg/mL in methanol	1 mL
B-043	Brompheniramine maleate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
B-023	BSTFA (with 1% TMCS)		10 × 1 mL
B-022	Bufotenine (unlabeled)	1 mg/mL in acetonitrile	1 mL
B-908	Buprenorphine (D <sub>4</sub> , 98%)	1 mg/mL in methanol	1 mL
B-901	Buprenorphine (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
B-044	Buprenorphine (unlabeled)	1 mg/mL in methanol	1 mL
B-902	Buprenorphine (unlabeled)	100 µg/mL in methanol	1 mL
B-035	Buprenorphine glucuronide (unlabeled)	100 µg/mL in methanol	1 mL
B-034	Bupropion·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
DLM-2790	Buspirone-HCl (butyl-D <sub>8</sub> , 98%)	neat	Please inquire
B-058	Busulfan (unlabeled)	1 mg/mL in methanol	1 mL
B-024	Butabarbital (unlabeled)	1 mg/mL in methanol	1 mL
B-005	Butalbital (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
B-030	Butalbital (D <sub>5</sub> , 98%)	1000 µg/mL in methanol	1 mL
B-006	Butalbital (unlabeled)	1 mg/mL in methanol	1 mL
B-037	Butorphanol tartrate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
B-045	Butylone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
B-046	Butylone·HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
B-066	Butyryl fentanyl (unlabeled)	100 µg/mL in methanol	0.5 mL
CLM-728	Caffeine (3-methyl- <sup>13</sup> C, 99%)	neat	0.5 g
C-082	Caffeine ( <sup>13</sup> C <sub>3</sub> , 99%)	1 mg/mL in methanol	1 mL

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Catalog No.	Description	Concentration	Unit Size
CLM-514	Caffeine (trimethyl- <sup>13</sup> C <sub>3</sub> , 99%)	neat	1g
NLM-332	Caffeine (1,3- <sup>15</sup> N <sub>2</sub> , 99%)	neat	Please inquire
ULM-7653	Caffeine (unlabeled)	100 µg/mL in methanol	1.2 mL
C-051	Caffeine (unlabeled)	1000 µg/mL in methanol	1 mL
C-150	Cannabichromenic acid (CBCA) (unlabeled)	1 mg/mL in acetonitrile	1 mL
C-154	(±)-Cannabicyclol (CBL) (unlabeled)	1 mg/mL in acetonitrile	1 mL
C-084	Cannabidiol (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
C-045	(±)-Cannabidiol (unlabeled)	1000 µg/mL in methanol	1 mL
C-152	Cannabidivarinic acid (CBDVA) (unlabeled)	1 mg/mL in acetonitrile	1 mL
C-115	Cannabinol (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
C-046	Cannabinol (unlabeled)	1000 µg/mL in methanol	1 mL
C-121	Carbamazepine-10,11-epoxide (unlabeled)	1 mg/mL in methanol	1 mL
C-163	Carfentanil oxalate (D <sub>5</sub> , 98%)	100 µg/mL in methanol (as free base)	0.5 mL
C-155	Cathinone:HCl (D <sub>5</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
C-028	2R-Cathinone·HCl (unlabeled)	1 mg/mL in methanol	1 mL
C-019	2S-Cathinone·HCl (unlabeled)	1 mg/mL in methanol	1 mL
CLM-1608	Chloral hydrate (trichloromethyl- <sup>13</sup> C, 97%)	neat	10 mg
C-912	Chlordiazepoxide (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
C-022	Chlordiazepoxide (unlabeled)	1 mg/mL in methanol	1 mL
C-112	1-(3-Chlorophenyl)piperazine·HCl (D <sub>8</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
C-089	1-(3-Chlorophenyl)piperazine (MCPP):HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
C-086	Chlorpheniramine maleate (D <sub>6</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
C-036	Chlorpheniramine maleate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
C-107	Chlorpromazine maleate (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
C-904	Chlorpromazine·HCl (unlabeled)	1 mg/mL in methanol	1 mL
C-090	Citalopram hydrobromide (D <sub>6</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
C-095	Citalopram hydrobromide (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
C-057	Citalopram hydrobromide (unlabeled)	100 µg/mL in methanol (as free base)	1 mL
C-080	Clenbuterol·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
C-149	Clobazam ( <sup>13</sup> C <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
CLM-10630-B	Clobazam (ring-[C]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
C-909	Clobazam (unlabeled)	1 mg/mL in methanol	1 mL
C-116	Clomipramine·HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
C-118	Clomipramine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-10631-B	Clonazepam (ring-[α]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
C-905	Clonazepam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
C-906	Clonazepam (D <sub>4</sub> , 98%)	1 mg/mL in methanol	1 mL
C-907	Clonazepam (unlabeled)	1 mg/mL in methanol	1 mL
DLM-1287	Clonidine·HCl (4,4,5,5-imidazoline-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1.2 mL
DLM-1287	Clonidine·HCl (4,4,5,5-Imidazoline-D <sub>4</sub> , 98%) CP 95%	neat	5 mg, 10 mg
C-091	Clozapine (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-2816	Clozapine (4-methylpiperazinyl-D <sub>4</sub> , 97%)	neat	5 mg, 10 mg
C-059	Clozapine (unlabeled)	1000 µg/mL in methanol	1 mL
C-009	Cocaethylene (D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
C-024	Cocaethylene (D <sub>8</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
C-010	Cocaethylene (unlabeled)	1 mg/mL in acetonitrile	1 mL
C-004	Cocaine (D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
C-014	Cocaine (D <sub>3</sub> , 98%)	1000 µg/mL in acetonitrile	1 mL
C-008	Cocaine (unlabeled)	1000 µg/mL in acetonitrile	1 mL
C-005	Codeine (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
C-007	Codeine (D <sub>3</sub> , 98%)	1000 µg/mL in methanol	1 mL
C-041	Codeine (D <sub>6</sub> , 98%)	1 mg/mL in methanol	1 mL
C-040	Codeine (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL

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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
C-006	Codeine (unlabeled)	1 mg/mL in methanol	1 mL
C-015	Codeine (unlabeled)	100 µg/mL in methanol	1 mL
C-088	Cocaine Multi-Component Mixture – 4	250 µg/mL of each component in acetonitrile	1 mL
CNLM-10389-B	Codeine (9,10,15,16- <sup>13</sup> C <sub>4</sub> , 98%; <sup>15</sup> N, 98%) CP 95%	50 µg/mL in methanol	1 mL
C-138	Codeine-6-β-D-glucuronide (D <sub>3</sub> , 98%)	100 µg/mL in methanol:water (4:1)	1 mL
CNLM-10388-B	Codeine-6-β-D-glucuronide ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N, 98%) CP 95%	50 µg/mL in methanol:water (4:1)	1 mL
C-087	Codeine-6-β-D-glucuronide (unlabeled)	100 µg/mL in methanol:water (4:1)	1 mL
C-126	Codeine-6-β-D-glucuronide (unlabeled)	1 mg/mL in methanol:water (4:1)	1 mL
V-060	Coenzyme Q10 (unlabeled)	1 mg/mL in ethanol	1 mL
DLM-1819	DL-Cotinine (methyl-D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
DLM-1819	DL-Cotinine (methyl-D <sub>3</sub> , 98%)	neat	0.01 g, 0.1 g, 0.5 g
C-164	Creatinine (unlabeled)	2 mg/mL in methanol:water (1:1)	1 mL
C-114	Cyclobenzaprine-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
C-060	Cyclobenzaprine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
C-139	Cyclosporin A ( <sup>15</sup> N, 98%)	100 µg/mL in acetonitrile	1 mL
C-093	Cyclosporin A (unlabeled)	1 mg/mL in acetonitrile	1 mL
D-046	Dehydronorketamine-HCl (unlabeled)	100 µg/mL in acetonitrile	1 mL
D-142	Delorazepam (unlabeled)	100 µg/mL in acetonitrile	1 mL
D-079	Demoxepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
D-173	Dothiepin-HCl (cis/trans) (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-924	Desalkylflurazepam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
D-915	Desalkylflurazepam (unlabeled)	1 mg/mL in methanol	1 mL
D-039	N-Desethylamodiaquine dihydrochloride (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-903	Desipramine-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
D-116	Desipramine-HCl (D <sub>3</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
DLM-3020	Desipramine-HCl (2,4,6,8-D <sub>4</sub> , 98%)	neat	5 mg
D-906	Desipramine-HCl (unlabeled)	1 mg/mL in methanol	1 mL
D-110	N-Desmethyl-cis-tramadol-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
D-023	N-Desmethyl-cis-tramadol-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-058	O-Desmethyl-cis-tramadol-HCl (D <sub>6</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
T-035	O-Desmethyl-cis-tramadol-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-047	N-Desmethylcitalopram-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-049	N-Desmethylclobazam (unlabeled)	100 µg/mL in acetonitrile	1 mL
D-145	N-Desmethylclobazam (unlabeled)	1 mg/mL in 10% DMSO* in acetonitrile	1 mL
D-113	N-Desmethylclomipramine-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
D-916	N-Desmethylclomipramine (unlabeled)	1 mg/mL in methanol	1 mL
D-169	N-Desmethylclozapine (D <sub>8</sub> , 98%)	100 µg/mL in methanol	1 mL
D-048	N-Desmethylclozapine (unlabeled)	1 mg/mL in methanol	1 mL
D-088	N-Desmethylcyclobenzaprine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-075	N-Desmethyldoxepin-HCl (cis/trans) (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
D-007	Desmethyldoxepin (unlabeled)	1 mg/mL in methanol	1 mL
D-925	N-Desmethylflunitrazepam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
D-918	N-Desmethylflunitrazepam (unlabeled)	1 mg/mL in methanol	1 mL
D-069	N-Desmethylolanzapine (unlabeled)	1 mg/mL in acetonitrile:water (1:1) (as free base)	1 mL
D-012	(±)-N-Desmethylselegiline (unlabeled)	1 mg/mL in methanol	1 mL
D-052	N-Desmethyltapentadol (unlabeled)	1 mg/mL in methanol	1 mL
D-920	N-Desmethyltrimipramine, maleate salt (unlabeled)	1 mg/mL in methanol	1 mL
V-027	(±)-O-Desmethylvenlafaxine (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
V-007	O-Desmethylvenlafaxine (unlabeled)	100 µg/mL in methanol	1 mL
DLM-7504	Dexamethasone (4,6α,21,21-D <sub>4</sub> , 96%) may contain D at C-2	neat	Please inquire
D-085	Dexamethasone (unlabeled)	1 mg/mL in methanol	1 mL

\*DMSO: dimethyl sulfoxide

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Catalog No.	Description	Concentration	Unit Size
D-071	Dextromethorphan (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
D-013	Dextromethorphan (unlabeled)	1 mg/mL in methanol	1 mL
D-041	Dextrorphan (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
D-034	Dextrorphan tartrate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-10632-B	Diazepam (ring-[α]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
D-910	Diazepam (D <sub>5</sub> , 98%)	1 mg/mL in methanol	1 mL
D-902	Diazepam (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-1886	Diazepam (phenyl-D <sub>5</sub> , 98%)	neat	Please inquire
D-907	Diazepam (unlabeled)	1000 µg/mL in methanol	1 mL
D-159	Diclazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
D-029	Digoxin (unlabeled)	1 mg/mL in methanol	1 mL
D-021	Dihydrocodeine·HCl (D <sub>6</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
D-019	Dihydrocodeine·HCl (unlabeled)	1 mg/mL in methanol	1 mL
D-033	Dihydromorphine (unlabeled)	1 mg/mL in methanol	1 mL
D-077	5α-Dihydrotestosterone (16,16,17-D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
D-035	Diltiazem·HCl (unlabeled)	1000 µg/mL in acetonitrile	1 mL
B-026	4-bromo-2,5-Dimethoxyphenethylamine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-141	(±)-cis-4,4'-Dimethylaminorex (unlabeled)	1 mg/mL in 1% 1 M HCl in methanol	1 mL
D-096	3,4-Dimethylmethcathinone norephedrine metabolite·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-102	N,N-Dimethyltryptamine (DMT) (unlabeled)	1 mg/mL in methanol	1 mL
D-017	Diphenhydramine (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
D-015	Diphenhydramine·HCl (unlabeled)	1 mg/mL in methanol	1 mL
D-143	Diphenoxylate·HCl (unlabeled)	1 mg/mL in acetonitrile (as free base)	1 mL
DLM-3025	5,5-Diphenylhydantoin (phenyl-D <sub>5</sub> , 98%)	neat	0.01 g
DLM-324	5,5-Diphenylhydantoin (diphenyl-D <sub>10</sub> , 98%)	neat	0.01 g, 0.1 g
CNLM-411	5,5-Diphenylhydantoin (2- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL
ULM-8533	5,5-Diphenylhydantoin (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-3369	Dopamine·HCl (ring- <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
DLM-2181	Dopamine·HCl (ring-D <sub>3</sub> , 98%)	neat	0.1 g
D-072	Dopamine·HCl (D <sub>4</sub> , 98%)	100 µg/mL in methanol with 5% 1 M HCl (as free base)	1 mL
DLM-2498	Dopamine·HCl (1,1,2,2-D <sub>4</sub> , 97-98%)	neat	0.01 g, 0.1 g
D-927	Doxepin·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-060	Doxepin·HCl (cis/trans) (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
D-051	Doxylamine (D <sub>5</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
D-045	Doxylamine succinate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
D-068	Duloxetine·HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
D-044	Duloxetine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
E-019	Ecgonine ethyl ester (unlabeled)	1 mg/mL in acetonitrile	1 mL
E-002	Ecgonine methyl ester (D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
E-008	Ecgonine methyl ester (unlabeled)	100 µg/mL in acetonitrile	1 mL
E-001	Ecgonine methyl ester (unlabeled)	1000 µg/mL in acetonitrile	1 mL
E-004	Ecgonine·HCl (unlabeled)	1000 µg/mL in methanol	1 mL
E-021	EDDP perchlorate (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
E-006	EDDP perchlorate (unlabeled)	neat	10 mg
E-022	EDDP perchlorate (unlabeled)	1000 µg/mL in methanol	1 mL
E-012	EDDP perchlorate (unlabeled)	100 µg/mL in methanol	1 mL
E-057	EMDP·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
DLM-2745	Enalapril maleate (phenyl-D <sub>5</sub> , 98%)	neat	Please inquire
DLM-2744	Enalaprilat·H <sub>2</sub> O (phenyl-D <sub>5</sub> , 98%)	neat	Please inquire
E-025	(+)-Ephedrine·HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
E-026	(+)-Ephedrine·HCl (D <sub>3</sub> , 98%)	1000 µg/mL in methanol (as free base)	1 mL
E-011	(+)-Ephedrine·HCl (unlabeled)	1000 µg/mL in methanol (as free base)	1 mL

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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
E-023	(-)-Ephedrine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
E-058	Epitestosterone (unlabeled)	1 mg/mL in acetonitrile	1 mL
CLM-123	Erythromycin ( <i>N</i> -methyl- <sup>13</sup> C, 99%)	neat	1 g
CDLM-10030-MT	Erythromycin ( <i>N</i> -methyl- <sup>13</sup> C, 99%; D <sub>3</sub> , 98%) CP 97%	100 µg/mL in MTBE*	1.2 mL
CLM-3758	Erythromycin, lactobionate salt ( <i>N,N</i> -dimethyl- <sup>13</sup> C <sub>2</sub> , ~90%)	neat	Please inquire
CLM-165	Erythromycin, lactobionate salt ( <i>N</i> -methyl- <sup>13</sup> C, 99%)	neat	1 g
E-903	Estazolam (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
E-901	Estazolam (unlabeled)	1 mg/mL in methanol	1 mL
E-060	17β-Estradiol (unlabeled)	1 mg/mL in acetonitrile	1 mL
CLM-10404-C	Estradiol undecanoate (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%	100 µg/mL in methanol	1 mL
CLM-10404	Estradiol undecanoate (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%	neat	1 mg
E-029	Ethanol-50 (unlabeled)	50 mg/dL in water	10 × 1.2 mL
E-031	Ethanol-100 (unlabeled)	100 mg/dL in water	10 × 1.2 mL
E-041	Ethanol-150 (unlabeled)	150 mg/dL in water	10 × 1.2 mL
E-033	Ethanol-300 (unlabeled)	300 mg/dL in water	10 × 1.2 mL
E-036	Ethanol-400 (unlabeled)	400 mg/dL in water	10 × 1.2 mL
E-053	Ethanol-500 (unlabeled)	500 mg/dL in water	10 × 1.2 mL
E-063	Ethyl-β-D-glucuronide (D <sub>5</sub> , 98%)	1 mg/mL in methanol	1 mL
E-048	Ethyl-β-D-glucuronide (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
E-015	Ethyl-β-D-glucuronide (unlabeled)	1 mg/mL in methanol	1 mL
E-016	Ethyl-β-D-glucuronide (unlabeled)	100 µg/mL in methanol	1 mL
E-064	Ethyl sulfate sodium salt (unlabeled)	1 mg/mL in methanol	1 mL
E-018	(±)- <i>N</i> -Ethylamphetamine (unlabeled)	1 mg/mL in methanol	1 mL
E-052	Ethylmorphine (unlabeled)	1 mg/mL in methanol	1 mL
E-072	Ethylone·HCl (D <sub>5</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
E-071	Ethylone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
E-130	<i>N</i> -Ethylpentylone·HCl (D <sub>5</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
E-129	<i>N</i> -Ethylpentylone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
DLM-9855-C	Everolimus (2-Hydroxyethyl-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-9855	Everolimus (2-Hydroxyethyl-D <sub>4</sub> , 98%)	neat	1 mg
ULM-9856-C	Everolimus (unlabeled)	100 µg/mL in methanol	1 mL
ULM-9856	Everolimus (unlabeled)	neat	10 mg
CLM-10405	Fenoprofen, sodium salt hydrate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	neat	1 mg
F-001	Fentanyl (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
F-002	Fentanyl (unlabeled)	100 µg/mL in methanol	1 mL
F-013	Fentanyl (unlabeled)	1000 µg/mL in methanol	1 mL
F-017	(±)-Flecainide (unlabeled)	1 mg/mL in methanol	1 mL
F-035	Fluconazole ( <sup>13</sup> C <sub>3</sub> , 99%)	1 mg/mL in methanol	1 mL
F-031	Fluconazole (unlabeled)	2 mg/mL in methanol	1 mL
F-915	Flunitrazepam (D <sub>7</sub> , 98%)	100 µg/mL in methanol	1 mL
F-907	Flunitrazepam (unlabeled)	1 mg/mL in methanol	1 mL
F-019	(±)-2-Fluoroamphetamine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
F-015	4-Fluoromethcathinone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
F-042	(±)-3-Fluorophenmetrazine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
F-919	Fluoxetine-D <sub>6</sub> oxalate (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
F-918	Fluoxetine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
F-038	Fluoxetine oxalate (D <sub>6</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
F-903	Fluphenazine dihydrochloride (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
F-003	Flurazepam (unlabeled)	1 mg/mL in methanol	1 mL
F-045	Fluvoxamine maleate (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
F-040	Fluvoxamine maleate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
S-065	AB-FUBINACA (unlabeled)	100 µg/mL in methanol	1 mL

\*MTBE: methyl tert-butyl ether

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Catalog No.	Description	Concentration	Unit Size
F-046	Furanyl fentanyl-HCl (unlabeled)	100 µg/mL in methanol (as free base)	0.5 mL
F-005	Furosemide (unlabeled)	1 mg/mL in methanol	1 mL
G-901	Gabapentin (D <sub>10</sub> , 98%)	100 µg/mL in methanol	1 mL
G-007	Gabapentin (unlabeled)	1 mg/mL in methanol	1 mL
G-021	Gabapentin (unlabeled)	10 mg/mL in methanol	1 mL
G-001	GHB, sodium salt (unlabeled)	1 mg/mL in methanol	1 mL
G-005	Glutethimide (unlabeled)	1 mg/mL in methanol	1 mL
DLM-3996	Glybenclamide (cyclohexylamine-D <sub>11</sub> , 98%)	neat	Please inquire
H-002	Haloperidol (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
H-030	Haloperidol (unlabeled)	1 mg/mL in methanol	1 mL
H-037	Heroin (D <sub>9</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
H-036	Heroin (D <sub>9</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
H-038	Heroin (unlabeled)	1 mg/mL in acetonitrile	1 mL
H-013	Hexobarbital (unlabeled)	1 mg/mL in methanol	1 mL
CLM-373	Homovanillic acid (1,2- <sup>13</sup> C <sub>2</sub> , 98-99%)	neat	0.1 g
DLM-2738	Homovanillic acid (phenyl-D <sub>3</sub> , 2,2-D <sub>2</sub> , 96-98%)	neat	0.1 g
COLM-376	Homovanillic acid (ring- <sup>13</sup> C <sub>6</sub> , 99%; 4-hydroxy- <sup>18</sup> O, 90-95%)	neat	0.01 g
S-024	HU-210 Spice cannabinoid (unlabeled)	100 µg/mL in methanol	1 mL
H-001	Hydrochlorothiazide (unlabeled)	1 mg/mL in methanol	1 mL
H-005	Hydrocodone (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
H-008	Hydrocodone (D <sub>3</sub> , 98%)	1000 µg/mL in methanol	1 mL
H-048	Hydrocodone (D <sub>6</sub> , 98%)	1 mg/mL in methanol	1 mL
H-047	Hydrocodone (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
H-003	Hydrocodone (unlabeled)	1000 µg/mL in methanol	1 mL
H-006	Hydromorphone (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
H-010	Hydromorphone (D <sub>3</sub> , 98%)	1000 µg/mL in methanol	1 mL
H-004	Hydromorphone (unlabeled)	1000 µg/mL in methanol	1 mL
H-049	Hydromorphone (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
H-051	Hydromorphone-3-β-D-glucuronide (unlabeled)	100 µg/mL in methanol:water (1:1)	1 mL
A-904	α-Hydroxyprazepam (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
A-908	α-Hydroxyprazepam (D <sub>5</sub> , 98%)	1000 µg/mL in methanol	1 mL
A-907	α-Hydroxyprazepam (unlabeled)	1 mg/mL in methanol	1 mL
A-905	α-Hydroxyprazepam (unlabeled)	100 µg/mL in methanol	1 mL
H-017	m-Hydroxybenzoylcgonine (unlabeled)	1 mg/mL in methanol	1 mL
H-062	(±)-Hydroxybupropion (D <sub>6</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
H-066	(±)-Hydroxybupropion (unlabeled)	1 mg/mL in acetonitrile	1 mL
D-091	10,11-dihydro-10-Hydroxycarbamazepine (unlabeled)	1 mg/mL in acetonitrile	1 mL
H-119	m-Hydroxycocaine (unlabeled)	1 mg/mL in acetonitrile	1 mL
H-101	trans-3'-Hydroxycotinine (unlabeled)	1 mg/mL in methanol	1 mL
H-919	2-Hydroxyethylflurazepam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
F-902	2-Hydroxyethylflurazepam (unlabeled)	1 mg/mL in methanol	1 mL
F-901	2-Hydroxyethylflurazepam (unlabeled)	100 µg/mL in methanol	1 mL
H-921	α-Hydroxymidazolam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
H-922	α-Hydroxymidazolam (unlabeled)	1 mg/mL in methanol	1 mL
H-902	α-Hydroxymidazolam (unlabeled)	100 µg/mL in methanol	1 mL
IMPM-005-05	10-Hydroxymorphine (unlabeled)	100 µg/mL in methanol	1 mL
H-098	6αβ-Hydroxyoxymorphone (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
H-096	17α-Hydroxyprogesterone (2,2,4,6,6,21,21,21-D <sub>8</sub> , 98%)	100 µg/mL in methanol	1 mL
H-081	7-Hydroxyquetiapine (unlabeled)	1 mg/mL in methanol	1 mL
H-076	9-Hydroxyrisperidone (unlabeled)	1 mg/mL in methanol	1 mL
T-916	α-Hydroxytriazolam (D <sub>4</sub> , 98%)	1 mg/mL in methanol	1 mL
T-909	α-Hydroxytriazolam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
T-911	α-Hydroxytriazolam (unlabeled)	1 mg/mL in methanol	1 mL

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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
T-915	$\alpha$ -Hydroxytriazolam (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
I-902	Imipramine (unlabeled)	1 mg/mL in methanol	1 mL
DLM-3035	Imipramine-HCl (2,4,6,8-D <sub>4</sub> , 98%) CP 97%	neat	2 mg
I-903	Imipramine maleate (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
DLM-10541	Iopromide ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	neat	1 mg
DLM-10609	5-Chloro-2-methyl-4-isothiazolin-3-one ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	neat	Please inquire
I-021	Itraconazole (D <sub>4</sub> , 98%)	1 mg/mL in methanol with 1% in 1 M HCl	1 mL
S-025	JWH-018 Spice cannabinoid (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-027	JWH-073 Spice cannabinoid (unlabeled)	100 $\mu$ g/mL in acetonitrile	1 mL
S-035	JWH-018 3-Hydroxypentyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-039	JWH-018 4-Hydroxypentyl metabolite (indole-D <sub>5</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
S-054	JWH-018 5-Hydroxypentyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-033	JWH-018 5-Pentanoic acid metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-043	JWH-019 6-Hydroxyhexyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-036	JWH-073 4-Butanoic acid metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-040	JWH-073 3-Hydroxybutyl metabolite (indole-D <sub>5</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
S-037	JWH-073 3-Hydroxybutyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-053	JWH-073 4-Hydroxybutyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-056	JWH-122 4-Hydroxypentyl metabolite-D <sub>5</sub> (indole-D <sub>5</sub> )	100 $\mu$ g/mL in methanol	1 mL
S-049	JWH-122 4-Hydroxypentyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-046	JWH-250 4-Hydroxypentyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
S-045	JWH-250 5-Hydroxypentyl metabolite (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
K-003	Ketamine-HCl (D <sub>4</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
K-002	Ketamine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-7118	Ketoconazole (carbonyl- <sup>13</sup> C, 99%)	neat	Please inquire
CNLM-10406	Kevetrin-HCl ( <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N <sub>3</sub> , 98%) CP 95%	neat	1 mg
L-029	Lacosamide (unlabeled)	1 mg/mL in acetonitrile	1 mL
CNLM-7633	Lamotrigine (5,6- <sup>13</sup> C <sub>2</sub> , 99%; 5-amino- <sup>15</sup> N, 98%)	neat	0.01 g
L-019	Lamotrigine (unlabeled)	1 mg/mL in methanol	1 mL
L-004	Lampa (unlabeled)	1 mg/mL in acetonitrile	1 mL
L-025	(-)-Levamisole·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
L-031	Levetiracetam (D <sub>6</sub> , 98%)	1 mg/mL in methanol	1 mL
L-023	Levetiracetam (D <sub>6</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
L-020	Levetiracetam (unlabeled)	1 mg/mL in methanol	1 mL
L-010	Levomethorphan (unlabeled)	neat	10 mg
L-044	Levorphanol tartrate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
L-018	Lidocaine (unlabeled)	1 mg/mL in methanol	1 mL
CLM-10633-B	Lorazepam (ring-[ $\alpha$ ]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 $\mu$ g/mL in methanol	1 mL
L-911	Lorazepam (D <sub>4</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
L-902	Lorazepam (D <sub>4</sub> , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
L-901	Lorazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
L-021	Lorezapam glucuronide (unlabeled)	100 $\mu$ g/mL acetonitrile:water (1:1)	1 mL
L-907	Lormetazepam (unlabeled)	1 mg/mL in methanol	1 mL
L-002	LSD (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
L-005	LSD (unlabeled)	25 $\mu$ g/mL in acetonitrile	1 mL
O-013	2-oxo-3-hydroxy-LSD (unlabeled)	100 $\mu$ g/mL in acetonitrile	1 mL
L-035	Lurasidone-HCl (D <sub>8</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
S-093	Mam2201 4-hydroxypentyl metabolite (indole-D <sub>5</sub> )	100 $\mu$ g/mL in methanol	1 mL
M-102	DL-MBDB-HCl (unlabeled)	1 mg/mL in methanol	1 mL
M-027	( $\pm$ )-MDA (D <sub>5</sub> , 98%)	1000 $\mu$ g/mL in methanol	1 mL
M-010	DL-MDA (D <sub>5</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
M-012	DL-MDA (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL

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Catalog No.	Description	Concentration	Unit Size
CLM-10394-B	DL-MDA-HCl (ring- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
M-068	(±)-MDEA (D <sub>5</sub> , 98%)	1000 µg/mL in methanol	1 mL
M-081	(±)-MDEA (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
M-082	(±)-MDEA (D <sub>6</sub> , 98%)	1000 µg/mL in methanol	1 mL
M-067	DL-MDEA (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
M-065	DL-MDEA (unlabeled)	1000 µg/mL in methanol	1 mL
CLM-10393-B	DL-MDEA-HCl (ring- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
M-029	(±)-MDMA (D <sub>5</sub> , 98%)	1000 µg/mL in methanol	1 mL
M-011	DL-MDMA (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
M-013	DL-MDMA (unlabeled)	1000 µg/mL in methanol	1 mL
M-920	Maprotiline-HCl	1 mg/mL in methanol (as free base)	1 mL
M-095	Melatonin (unlabeled)	1 mg/mL in methanol	1 mL
M-036	Meperidine (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
M-038	Meperidine (D <sub>4</sub> , 98%)	1000 µg/mL in methanol	1 mL
M-035	Meperidine (unlabeled)	1000 µg/mL in methanol	1 mL
M-139	Mephedrone-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
M-138	Mephedrone-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-039	Meprobamate (unlabeled)	1 mg/mL in methanol	1 mL
M-051	Mescaline-HCl (D <sub>9</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
M-047	Mescaline-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-148	(±)-Metanephrine-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
DLM-7861	Metformin-HCl (dimethyl-D <sub>6</sub> , 99%)	neat	Please inquire
M-072	Metformin-HCl (unlabeled)	1 mg/mL (as free base)	1 mL
CLM-1280	Methacetin (methoxy- <sup>13</sup> C, 99%)	neat	1 g, 10 g
M-021	(±)-Methadone (D <sub>3</sub> , 98%)	1 mg/mL in methanol	1 mL
M-008	(±)-Methadone (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
M-089	(±)-Methadone (D <sub>9</sub> , 98%)	1 mg/mL in methanol	1 mL
M-088	(±)-Methadone (D <sub>9</sub> , 98%)	100 µg/mL in methanol	1 mL
M-019	(±)-Methadone (unlabeled)	100 µg/mL in methanol	1 mL
M-007	DL-Methadone (unlabeled)	1000 µg/mL in methanol	1 mL
M-034	(±)-Methamphetamine (D <sub>8</sub> , 98%)	1 mg/mL in methanol	1 mL
M-016	(±)-Methamphetamine (D <sub>8</sub> , 98%)	100 µg/mL in methanol	1 mL
M-090	(±)-Methamphetamine (D <sub>9</sub> , 98%)	100 µg/mL in methanol	1 mL
M-091	(±)-Methamphetamine (D <sub>9</sub> , 98%)	1 mg/mL in methanol	1 mL
M-092	(±)-Methamphetamine (D <sub>14</sub> , 98%)	100 µg/mL in methanol	1 mL
M-093	(±)-Methamphetamine (D <sub>14</sub> , 98%)	1 mg/mL in methanol	1 mL
M-022	(±)-Methamphetamine (unlabeled)	100 µg/mL in methanol	1 mL
M-020	(+)-Methamphetamine (unlabeled)	1 mg/mL in methanol	1 mL
M-004	DL-Methamphetamine (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
M-023	DL-Methamphetamine (D <sub>5</sub> , 98%)	1000 µg/mL in methanol	1 mL
M-059	DL-Methamphetamine (D <sub>11</sub> , 98%)	100 µg/mL in methanol	1 mL
M-060	DL-Methamphetamine (D <sub>11</sub> , 98%)	1000 µg/mL in methanol	1 mL
M-009	DL-Methamphetamine (unlabeled)	1000 µg/mL in methanol	1 mL
M-024	R(-)-Methamphetamine (unlabeled)	1 mg/mL in methanol	1 mL
M-025	Methamphetamine/cocaine/heroin mix (unlabeled)	250 µg/mL in acetonitrile	1 mL
CLM-10390-B	DL-Methamphetamine-HCl (ring- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
M-912	Methandienone (unlabeled)	1 mg/mL in 1,2-dimethoxyethane	1 mL
M-014	Methaqualone (D <sub>7</sub> , 98%)	100 µg/mL in methanol	1 mL
M-015	Methaqualone (unlabeled)	1000 µg/mL in methanol	1 mL
M-189	(±)-Methcathinone-HCl (D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile (as free base)	1 mL
M-061	2R-Methcathinone-HCl (unlabeled)	1 mg/mL in methanol	1 mL
M-055	2S-Methcathinone-HCl (unlabeled)	1 mg/mL in methanol	1 mL

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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
M-147	Methedrone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-164	Methiopropamine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-079	Methohexitole ( $D_5$ , 98%)	100 µg/mL in methanol	1 mL
M-136	Methotrexate (unlabeled)	1 mg/mL in methanol with 0.1 N sodium hydroxide	1 mL
M-156	Methoxetamine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-192	Methoxyphenidine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
DLM-2646	5-Methoxytryptamine·HCl ( $\alpha,\alpha,\beta,\beta-D_4$ , 98%)	neat	0.01 g, 0.1 g
M-150	3,4-Methylenedioxypyrovalerone·HCl (MDPV) ( $D_8$ , 98%)	100 µg/mL in methanol (as free base)	1 mL
M-146	3,4-Methylenedioxypyrovalerone·HCl (MDPV) (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-129	Methylephedrine (unlabeled)	1 mg/mL in methanol	1 mL
M-194	(±)-cis-3-Methylfentanyl·HCl (unlabeled)	100 µg/mL in methanol (as free base)	0.5 mL
M-174	Methylhexanamine·HCl (DMAA HCl) ( $D_4$ , 98%)	100 µg/mL in methanol (as free base)	1 mL
M-157	Methylhexanamine·HCl (DMAA HCl) (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-080	Methylmalonic acid (unlabeled)	1 mg/mL in acetonitrile	1 mL
N-074	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol (NNAL) (unlabeled)	1 mg/mL in methanol	1 mL
N-076	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanone (NNK) (unlabeled)	1 mg/mL in methanol	1 mL
M-141	Methylone·HCl ( $D_3$ , 98%)	100 µg/mL in methanol (as free base)	1 mL
M-140	Methylone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-127	Methylphenidate·HCl ( $D_9$ , 98%)	100 µg/mL in methanol (as free base)	1 mL
M-083	Methylphenidate·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-906	17 $\alpha$ -Methyltestosterone (unlabeled)	1 mg/mL in 1,2-dimethoxyethane	1 mL
M-123	Metoprolol tartrate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
M-183	Metronidazole (unlabeled)	2 mg/mL in methanol	1 mL
M-901	Mianserin ( $D_3$ , 98%)	100 µg/mL in methanol	1 mL
M-919	Mianserin·HCl (unlabeled)	1000 µg/mL in methanol (as free base)	1 mL
CLM-10634-B	Midazolam (ring-[ $\alpha$ ]- $^{13}\text{C}_6$ , 98%) CP 95%	50 µg/mL in methanol	1 mL
M-908	Midazolam (unlabeled)	1 mg/mL in methanol	1 mL
M-918	Midazolam maleate ( $D_4$ , 98%)	100 µg/mL in methanol	1 mL
M-191	Mirtazapine ( $D_3$ , 98%)	100 µg/mL in methanol	1 mL
M-128	Mirtazapine (unlabeled)	1 mg/mL in methanol	1 mL
M-084	Modafinil (unlabeled)	1 mg/mL in acetonitrile	1 mL
M-142	Modafinil acid (unlabeled)	1 mg/mL in acetonitrile	1 mL
M-001	1-Mononitroglycerin (unlabeled)	100 µg/mL in acetonitrile	1 mL
DLM-10407	Moricizine hydrochloride ( $D_8$ , 98%) CP 95%	neat	1 mg
M-003	Morphine ( $D_3$ , 98%)	100 µg/mL in methanol	1 mL
M-006	Morphine ( $D_3$ , 98%)	1000 µg/mL in methanol	1 mL
M-085	Morphine ( $D_6$ , 98%)	100 µg/mL in methanol	1 mL
M-086	Morphine ( $D_6$ , 98%)	1 mg/mL in methanol	1 mL
CNLM-10392-B	Morphine (9,10,15,16- $^{13}\text{C}_4$ , 98%; $^{15}\text{N}$ , 98%) CP 95%	50 µg/mL in methanol	1 mL
M-005	Morphine (unlabeled)	1 mg/mL in methanol	1 mL
M-030	Morphine (unlabeled)	100 µg/mL in methanol	1 mL
M-017	Morphine-3- $\beta$ -D-glucuronide ( $D_3$ , 98%)	100 µg/mL in methanol	1 mL
M-018	Morphine-3- $\beta$ -D-glucuronide (unlabeled)	100 µg/mL in methanol	1 mL
M-031	Morphine-3- $\beta$ -D-glucuronide (unlabeled)	1 mg/mL in methanol:water (1:1)	1 mL
M-120	Morphine-6- $\beta$ -D-glucuronide ( $D_3$ , 98%)	100 µg/mL in methanol:water (1:1)	1 mL
CNLM-10391-B	Morphine-6- $\beta$ -D-glucuronide ( $^{13}\text{C}_{10}$ , 98%; $^{15}\text{N}$ , 98%) CP 95%	50 µg/mL in methanol:water (1:4)	1 mL
M-046	Morphine-6- $\beta$ -D-glucuronide (unlabeled)	1 g/ml in methanol:water (1:4)	1 mL
M-096	Morphine-6- $\beta$ -D-glucuronide (unlabeled)	100 µg/mL in methanol:water (1:1)	1 mL
DLM-1881SA	Morphine·H <sub>2</sub> O ( <i>N</i> -methyl- $D_3$ , 98%)	0.1 mg/mL in methanol	Please inquire
M-188	MT-45 dihydrochloride (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
A-056	Multicomponent Alcohol Mix 1000 (unlabeled)	1000 µg/mL of each component in water	1.2 mL
M-106	Mycophenolic acid (unlabeled)	1 mg/mL in acetonitrile	1 mL

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Catalog No.	Description	Concentration	Unit Size
N-051	Nalbuphine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
N-924	Nalorphine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
N-004	Naloxone (unlabeled)	1 mg/mL in methanol	1 mL
N-109	Naloxone-3 $\beta$ -D-glucuronide (D <sub>5</sub> , 98%)	100 $\mu$ g/mL in methanol:water (90:10)	1 mL
N-081	6 $\beta$ -Naltrexol (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
N-038	6 $\beta$ -Naltrexol (unlabeled)	1 mg/mL in methanol	1 mL
N-104	6 $\beta$ -Naltrexol-3- $\beta$ -D-glucuronide (unlabeled)	1 mg/mL in methanol:water (4:1)	1 mL
N-047	Naltrexone (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
CNLN-10639-B	Naltrexone (9,15,16- <sup>13</sup> C <sub>3</sub> , 98%;17- <sup>15</sup> N, 98%) CP 95%	50 $\mu$ g/mL in methanol	1 mL
N-007	Naltrexone (unlabeled)	1 mg/mL in methanol	1 mL
N-106	Naltrexone-3- $\beta$ -D-glucuronide (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
N-050	Nandrolone (unlabeled)	1 mg/mL in acetonitrile	1 mL
N-067	Naphyrone-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-7522	Naproxen, sodium salt ( <i>O</i> -methyl- <sup>13</sup> C, 98%)	neat	Please inquire
I-019	25I-NBOH-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
H-115	25H-NBOMe-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
I-017	25I-NBOMe-HCl (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
V-016	Nicotinamide (vitamin B <sub>3</sub> ) (unlabeled)	1 mg/mL in methanol	1 mL
N-048	( $\pm$ )-Nicotine (D <sub>4</sub> , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
CLM-3914	DL-Nicotine (3',4',5'- <sup>13</sup> C <sub>3</sub> , 99%)	100 $\mu$ g/mL in acetonitrile	1.2 mL
CLM-3914	DL-Nicotine (3',4',5'- <sup>13</sup> C <sub>3</sub> , 99%)	neat	0.1 g
DLM-1818	DL-Nicotine (methyl-D <sub>3</sub> , 98%)	neat	0.1 g, 0.5 g
N-008	S(-)-Nicotine (unlabeled)	1 mg/mL in methanol	1 mL
V-017	Nicotinic acid (vitamin B <sub>3</sub> ) (unlabeled)	1 mg/mL in methanol	1 mL
N-073	Nimetazepam (unlabeled)	1 mg/mL in methanol	1 mL
N-901	Nitrazepam (D <sub>5</sub> , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
N-906	Nitrazepam (unlabeled)	1 mg/mL in methanol	1 mL
N-921	Norbuprenorphine (D <sub>3</sub> , 98%)	1 mg/mL in methanol	1 mL
N-920	Norbuprenorphine (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
N-059	Norbuprenorphine (unlabeled)	1 mg/mL in methanol	1 mL
N-912	Norbuprenorphine (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
N-045	Norbuprenorphine glucuronide (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
N-034	Norcocaine-HCl (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in acetonitrile (as free base)	1 mL
N-003	Norcocaine-HCl (unlabeled)	1 mg/mL in acetonitrile	1 mL
N-082	Norcodeine (D <sub>3</sub> , 98%)	1 mg/mL in methanol	1 mL
N-005	Norcodeine (unlabeled)	1 mg/mL in methanol	1 mL
CLM-10635-B	Nordiazepam (ring-[ $\alpha$ ]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 $\mu$ g/mL in methanol	1 mL
N-911	Nordiazepam (D <sub>5</sub> , 98%)	1 mg/mL in methanol	1 mL
N-903	Nordiazepam (D <sub>5</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
DLM-1885	Nordiazepam (phenyl-D <sub>5</sub> , 98%)	neat	Please inquire
N-905	Nordiazepam (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
N-043	( $\pm$ )-Norephedrine-HCl (D <sub>3</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
N-069	( $\pm$ )-Norepinephrine-HCl (D <sub>6</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
N-055	Norfentanyl oxalate (D <sub>5</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
N-030	Norfentanyl oxalate (D <sub>5</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
N-031	Norfentanyl oxalate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
N-922	Norfluoxetine oxalate (D <sub>6</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
N-102	Norfluoxetine oxalate (D <sub>6</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
N-923	Norfluoxetine oxalate (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
N-054	Norhydrocodone-HCl (D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
N-053	Norhydrocodone-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
N-037	( $\pm$ )-Norketamine-HCl (D <sub>4</sub> , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
N-036	( $\pm$ )-Norketamine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
N-124	Norlidocaine (unlabeled)	1 mg/mL in methanol	1 mL
N-083	Normeperidine ( $D_4$ , 98%)	1 mg/mL in methanol	1 mL
N-020	Normeperidine ( $D_4$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
N-089	Normeperidine (unlabeled)	1 mg/mL in methanol	1 mL
N-017	Normeperidine (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
N-068	( $\pm$ )-Normetanephrine·HCl ( $D_3$ , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
DLM-8609	DL-Normetanephrine·HCl ( $\alpha,\beta,\beta$ - $D_3$ , 98%)	neat	5 mg, 10 mg
N-006	Normorphine (unlabeled)	1 mg/mL in methanol	1 mL
DLM-9017	DL-Nornicotine (pyridine- $D_4$ , 98%)	neat	Please inquire
N-032	Noroxycodone·HCl ( $D_3$ , 98%)	100 $\mu$ g/mL in acetonitrile (as free base)	1 mL
N-011	Noroxycodone·HCl (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
N-012	Noroxymorphone·HCl (unlabeled)	100 $\mu$ g/mL in methanol:DMSO* (4:1) (as free base)	1 mL
N-919	( $\pm$ )-Norpropoxyphene maleate ( $D_5$ , 98%)	1 mg/mL in methanol	1 mL
N-913	D-Norpropoxyphene maleate (unlabeled)	1000 $\mu$ g/mL in methanol (as free base)	1 mL
N-904	DL-Norpropoxyphene maleate ( $D_5$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
N-046	(+)-Norpseudoephedrine·HCl (cathine·HCl) (unlabeled)	100 $\mu$ g/mL in methanol (as free base)	1 mL
N-087	( $\pm$ )-Norpseudoephedrine·HCl ( $D_3$ , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
N-070	Norquetiapine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
N-049	Norsertraline·HCl (unlabeled)	100 $\mu$ g/mL in methanol (as free base)	1 mL
N-061	Nortilidine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
N-090	Nortriptyline·HCl ( $D_3$ , 98%)	1 mg/mL in methanol (as free base)	1 mL
N-902	Nortriptyline·HCl ( $D_3$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
DLM-3038	Nortriptyline·HCl (methyl- $D_3$ , 98%)	neat	5 mg, 0.1 g
N-907	Nortriptyline·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
DLM-10618	Obeticholic acid (2,2,4,4- $D_4$ , 98%)	neat	1 mg
O-035	Olanzapine ( $D_8$ , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
O-024	Olanzapine (unlabeled)	1 mg/mL in acetonitrile	1 mL
O-021	Omeprazole (unlabeled)	1 mg/mL in methanol	1 mL
O-020	Opiate multi-component mixture-5 (unlabeled)	250 $\mu$ g/mL in methanol	1 mL
O-034	Over-the-counter multi-component mixture-6 (unlabeled)	100 $\mu$ g/mL in acetonitrile	1 mL
CLM-10636-B	Oxazepam (ring-[ $\alpha$ ]- $^{13}\text{C}_6$ , 98%) CP 95%	50 $\mu$ g/mL in methanol	1 mL
O-901	Oxazepam ( $D_5$ , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
O-904	Oxazepam ( $D_5$ , 98%)	1000 $\mu$ g/mL in methanol	1 mL
DLM-1888	Oxazepam (phenyl- $D_5$ , 98%)	neat	Please inquire
O-902	Oxazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
O-038	Oxazepam glucuronide ( $D_5$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
O-023	Oxazepam glucuronide (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
O-025	Oxcarbazepine (unlabeled)	1 mg/mL in acetonitrile	1 mL
O-005	Oxycodone ( $D_3$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
O-006	Oxycodone ( $D_3$ , 98%)	1 mg/mL in methanol	1 mL
O-007	Oxycodone ( $D_6$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
O-008	Oxycodone ( $D_6$ , 98%)	1 mg/mL in methanol	1 mL
O-002	Oxycodone (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
O-019	Oxymorphone ( $D_3$ , 98%)	1 mg/mL in methanol	1 mL
O-003	Oxymorphone ( $D_3$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
O-004	Oxymorphone (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
O-031	Oxymorphone-3- $\beta$ -D-glucuronide (internal standard) ( $D_3$ , 98%)	100 $\mu$ g/mL in methanol:water (1:1)	1 mL
O-030	Oxymorphone-3- $\beta$ -D-glucuronide (unlabeled)	100 $\mu$ g/mL in methanol:water (1:1)	1 mL
S-095	PB-22 4-hydroxypentyl metabolite (indole- $D_5$ , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
S-094	PB-22 4-hydroxypentyl metabolite (unlabeled)	100 $\mu$ g/mL in acetonitrile	1 mL
S-097	PB-22 5-pentanoic acid metabolite (indole- $D_5$ , 98%)	100 $\mu$ g/mL in methanol	1 mL

\*DMSO: dimethyl sulfoxide

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Catalog No.	Description	Concentration	Unit Size
S-096	PB-22 5-pentanoic acid metabolite (unlabeled)	100 µg/mL in methanol	1 mL
S-076	PB-22 (unlabeled)	100 µg/mL in acetonitrile	1 mL
S-075	5-fluoro PB-22 (unlabeled)	100 µg/mL in acetonitrile	1 mL
P-071	Pain-management multi-component opiate mixture-13	100 µg/mL each component; 10 µg/mL fentanyl in methanol	1 mL
F-048	Para-fluorobutryl fentanyl (PFBF) (unlabeled)	100 µg/mL in methanol	0.5 mL
IMPC-051-03	Paraxanthine (unlabeled)	1 mg/mL in methanol	1 mL
P-915	Paroxetine maleate ( $D_6$ , 98%)	100 µg/mL in methanol	1 mL
P-916	Paroxetine maleate (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-073	Pentazocine (unlabeled)	1 mg/mL in methanol	1 mL
P-009	Pentobarbital ( $D_5$ , 98%)	100 µg/mL in methanol	1 mL
P-013	Pentobarbital ( $D_5$ , 98%)	1000 µg/mL in methanol	1 mL
P-010	Pentobarbital (unlabeled)	1 mg/mL in methanol	1 mL
CLM-1296	Phenacetin (ethoxy-1- $^{13}\text{C}$ , 99%)	neat	0.5 g, 1 g
P-080	Phenazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
P-003	Phencyclidine ( $D_5$ , 98%)	100 µg/mL in methanol	1 mL
P-006	Phencyclidine ( $D_5$ , 98%)	1000 µg/mL in methanol	1 mL
P-007	Phencyclidine (unlabeled)	1000 µg/mL in methanol	1 mL
P-045	Pheniramine (unlabeled)	1 mg/mL in methanol	1 mL
P-017	Phenobarbital (2-methylbutyl-3,3,4,4,4- $D_5$ , 98%)	1 mg/mL in methanol	1 mL
P-004	Phenobarbital (2-methylbutyl-3,3,4,4,4- $D_5$ , 98%)	100 µg/mL in methanol	1 mL
P-018	Phenobarbital (5-ethyl- $D_5$ , 98%)	100 µg/mL in methanol	1 mL
P-019	Phenobarbital (5-ethyl- $D_5$ , 98%)	1000 µg/mL in methanol	1 mL
DLM-433	Phenobarbital (ethyl- $D_5$ , 98%)	neat	0.1 g
P-008	Phenobarbital (unlabeled)	1000 µg/mL in methanol	1 mL
P-023	Phentermine (unlabeled)	1 mg/mL in methanol	1 mL
P-034	Phentermine-HCl ( $D_5$ , 98%)	100 µg/mL in methanol (as free base)	1 mL
P-079	(±)-Phenylephrine·HCl ( $D_3$ , 98%)	100 µg/mL in methanol with 5% 1 M HCl (as free base)	1 mL
P-078	R(-)-Phenylephrine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-038	(±)-Phenylpropanolamine·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-067	Phenytoin ( $D_{10}$ , 98%)	100 µg/mL in methanol	1 mL
P-063	Phenytoin (unlabeled)	1 mg/mL in methanol	1 mL
P-119	Pholcodine (unlabeled)	1 mg/mL in methanol	1 mL
P-050	PMA·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-051	PMMA·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-108	Posaconazole ( $D_4$ , 98%)	1 mg/mL in methanol	1 mL
CLM-10637-B	Prazepam (ring-[ $\alpha$ ]- $^{13}\text{C}_6$ , 98%) CP 95%	50 µg/mL in methanol	1 mL
P-906	Prazepam (unlabeled)	1 mg/mL in methanol	1 mL
P-106	Pregabalin ( $^{13}\text{C}_3$ , 98%)	100 µg/mL in methanol	1 mL
P-072	Pregabalin ( $D_6$ , 98%)	100 µg/mL in methanol	1 mL
P-066	Pregabalin (unlabeled)	1 mg/mL in methanol	1 mL
P-075	Primidone (unlabeled)	1 mg/mL in methanol	1 mL
CLM-10557	Probucol (propyl- $^{13}\text{C}_3$ , 99%) CP 96%	neat	0.01 g, 0.05 g
P-077	Propofol ( $D_{17}$ , 98%)	100 µg/mL in methanol	1 mL
P-076	Propofol (unlabeled)	1 mg/mL in methanol	1 mL
P-913	(±)-Propoxyphene ( $D_{11}$ , 98%)	100 µg/mL in methanol	1 mL
P-011	D-Propoxyphene (unlabeled)	1000 µg/mL in acetonitrile	1 mL
P-904	DL-Propoxyphene ( $D_5$ , 98%)	1 mg/mL in methanol	1 mL
P-901	DL-Propoxyphene ( $D_5$ , 98%)	100 µg/mL in methanol	1 mL
P-055	Propranolol·HCl (unlabeled)	100 µg/mL in methanol	1 mL
P-088	Protriptyline·HCl ( $D_3$ , 98%)	100 µg/mL in methanol (as free base)	1 mL
P-903	Protriptyline·HCl (unlabeled)	1 mg/mL in methanol	1 mL

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## Drugs and Their Metabolites (continued)

Catalog No.	Description	Concentration	Unit Size
P-035	(+)-Pseudoephedrine (unlabeled)	1 mg/mL in methanol	1 mL
P-036	(-)-Pseudoephedrine (unlabeled)	1 mg/mL in methanol	1 mL
P-056	Pseudoephedrine-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
P-098	Psilocin (unlabeled)	100 µg/mL in acetonitrile	1 mL
V-018	Pyridoxine-HCl (vitamin B <sub>6</sub> ) (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-081	Pyrovalerone-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
P-090	α-Pyrrolidinovalerophenone-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
Q-002	Quetiapine hemifumarate (D <sub>8</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
Q-001	Quetiapine hemifumarate (unlabeled)	1 mg/mL in methanol	1 mL
DLM-9220	Rapamycin (D <sub>3</sub> , 98%)	neat	1 mg, 5 mg, 10 mg
V-011	Retinol (vitamin A) (unlabeled)	100 µg/mL in ethanol with 0.1% (w/v) BHT*	1 mL
V-012	Retinyl palmitate (vitamin A) (unlabeled)	100 µg/mL in ethanol with 0.1% (w/v) BHT*	1 mL
R-026	Remifentanil acid (unlabeled)	100 µg/mL in acetonitrile	1 mL
V-067	(-)-Riboflavin (vitamin B <sub>2</sub> ) (unlabeled)	100 µg/mL in 1% ammonium acetate in 1:1 methanol:water	1 mL
R-006	Risperidone (unlabeled)	1 mg/mL in methanol	1 mL
R-011	Ritalinic acid-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
R-014	(±)-threo-Ritalinic acid-HCl (D <sub>10</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
S-042	Salicylic acid (D <sub>4</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
S-019	Salicylic acid (unlabeled)	1 mg/mL in acetonitrile	1 mL
S-012	Salvinorin A (unlabeled)	1 mg/mL in acetonitrile	1 mL
S-098	(-)-Scopolamine HBR (unlabeled)	1 mg/mL in 10% water in acetonitrile (as free base)	1 mL
DLM-2659	DL-Secobarbital (1-methyl-D <sub>3</sub> , butyl-2,2-D <sub>2</sub> ,98%)	neat	Please inquire
S-001	Secobarbital (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
S-048	Secobarbital (D <sub>5</sub> , 98%)	1 mg/mL in methanol	1 mL
S-002	Secobarbital (unlabeled)	1 mg/mL in methanol	1 mL
S-003	R(-)-Selegiline (unlabeled)	1 mg/mL in methanol	1 mL
S-021	Sertraline (unlabeled)	1 mg/mL in methanol	1 mL
S-026	Sertraline-HCl (D <sub>3</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
S-011	Sibutramine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
S-010	Sildenafil (unlabeled)	1 mg/mL in methanol	1 mL
S-015	Sirolimus (rapamycin) (unlabeled)	1 mg/mL in acetonitrile	1 mL
G-003	Sodium γ-hydroxybutyrate (2,2,3,3,4,4-D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
G-006	Sodium γ-hydroxybutyrate (2,2,3,3,4,4-D <sub>6</sub> , 98%)	1000 µg/mL in methanol	1 mL
S-038	Spice cannabinoid mix (unlabeled)	100 µg/mL of each component in acetonitrile	1 mL
ULM-10473-C	Stanozolol (unlabeled)	100 µg/mL in methanol	1 mL
S-008	Sufentanil citrate (unlabeled)	100 µg/mL in methanol (as free base)	1 mL
CLM-3045	Sulfamethazine (phenyl- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
CLM-3045	Sulfamethazine (phenyl- <sup>3</sup> C <sub>6</sub> , 99%)	neat	10 mg
ULM-7220	Sulfamethazine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
T-066	Tacrolimus ( <sup>13</sup> C, 99%; D <sub>2</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
T-049	Tacrolimus (unlabeled)	1 mg/mL in acetonitrile	1 mL
T-058	Tapentadol-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-10638-B	Temazepam (ring-[α]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
T-912	Temazepam (D <sub>5</sub> , 98%)	1 mg/mL in methanol	1 mL
T-902	Temazepam (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
T-907	Temazepam (unlabeled)	1000 µg/mL in methanol	1 mL
T-050	Temazepam glucuronide, lithium salt (unlabeled)	100 µg/mL in methanol (as free acid)	1 mL
CLM-7119	Temozolomide (methyl- <sup>13</sup> C, 99%)	neat	Please inquire
T-037	Testosterone (unlabeled)	1 mg/mL in acetonitrile	1 mL
T-108	THC Cannabinoids Mixture-3 (unlabeled)	1 mg/mL of each component in methanol	0.5 mL

\*BHT: butylated hydroxytoluene

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Catalog No.	Description	Concentration	Unit Size
T-032	(-)-δ-8-THC (unlabeled)	1 mg/mL in methanol	1 mL
T-011	(-)δ-9-THC (D <sub>3</sub> , 98%)	1 mg/mL in methanol	1 mL
T-003	(-)δ-9-THC (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
T-005	(-)δ-9-THC (unlabeled)	1 mg/mL in methanol	1 mL
T-047	(±)δ-9-THC (for qualitative use only) (unlabeled)	100 µg/mL in heptane	1 mL
H-041	(±)-11-hydroxy-δ-9-THC (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
H-026	(±)-11-hydroxy-δ-9-THC (unlabeled)	100 µg/mL in methanol	1 mL
H-027	(±)-11-hydroxy-δ-9-THC (unlabeled)	1 mg/mL in methanol	1 mL
T-019	(-)11-nor-9-carboxy-δ-9-THC (unlabeled)	1 mg/mL in methanol	1 mL
T-018	(-)11-nor-9-carboxy-δ-9-THC (unlabeled)	100 µg/mL in methanol	1 mL
T-004	DL-11-nor-9-carboxy-δ-9-THC (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
T-008	DL-11-nor-9-carboxy-δ-9-THC (D <sub>3</sub> , 98%)	1000 µg/mL in methanol	1 mL
T-009	DL-11-nor-9-carboxy-δ-9-THC (D <sub>9</sub> , 98%)	1 mg/mL in methanol	1 mL
T-007	DL-11-nor-9-carboxy-δ-9-THC (D <sub>9</sub> , 98%)	100 µg/mL in methanol	1 mL
T-006	DL-11-nor-9-carboxy-δ-9-THC (unlabeled)	100 µg/mL in methanol	1 mL
T-080	(±)-cis-11-nor-9-carboxy-δ-9-THC-glucuronide (D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
T-038	(+)-11-nor-δ-9-THC-9-carboxylic acid glucuronide (unlabeled)	100 µg/mL in methanol	1 mL
T-033	exo-THC (unlabeled)	1 mg/mL in methanol	1 mL
T-116	Thebaine (unlabeled)	1 mg/mL in methanol	1 mL
T-013	Theobromine (unlabeled)	100 µg/mL in methanol	1 mL
IMPC-051-01	Theophylline (unlabeled)	1 mg/mL in methanol	1 mL
V-014	Thiamine-HCl (Vitamin B <sub>1</sub> ) (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
T-905	Thioridazine (unlabeled)	1 mg/mL in methanol	1 mL
T-068	Tilidine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
T-085	Tizanidine-HCl (unlabeled)	500 µg/mL in methanol	1 mL
V-020	(±)-α-Tocopherol (vitamin E) (unlabeled)	1 mg/mL in methanol	1 mL
V-021	(+)-γ-Tocopherol (vitamin E) (unlabeled)	1 mg/mL in methanol	1 mL
T-041	Topiramate (D <sub>12</sub> , 98%)	100 µg/mL in methanol	1 mL
T-039	Topiramate (unlabeled)	1000 µg/mL in methanol	1 mL
T-020	Tramadol·HCl ( <sup>13</sup> C, 99%; D <sub>3</sub> , 98%)	1 mg/mL in methanol (as free base)	1 mL
T-029	Tramadol·HCl ( <sup>13</sup> C, 98%; D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
CLM-7491	cis-(±)-Tramadol·HCl (methoxy- <sup>13</sup> C, 99%)	neat	Please inquire
T-027	cis-Tramadol·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
T-079	Trazodone·HCl (D <sub>6</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
T-030	Trazodone·HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-10640-B	Triazolam (ring-[α]- <sup>13</sup> C <sub>6</sub> , 98%) CP 95%	50 µg/mL in methanol	1 mL
T-908	Triazolam (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
T-910	Triazolam (unlabeled)	1 mg/mL in methanol	1 mL
CNLM-9258	1,2,4-Triazole (3,5- <sup>13</sup> C <sub>2</sub> , 99%; 1,2,4- <sup>15</sup> N <sub>3</sub> , 98%)	neat	1 mg, 5 mg
T-920	3-Trifluoromethylphenylpiperazine-HCl (D <sub>4</sub> , 98%)	100 µg/mL in methanol (as free base)	1 mL
T-045	3-Trifluoromethylphenylpiperazine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
CLM-7988-A	Trimethoprim (pyrimidine-4,5,6- <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-7989-A	Trimethoprim (unlabeled)	50 µg/mL in methanol	1.2 mL
NMID855	3,4,5-Trimethoxy-cocaine-HCl (unlabeled)	neat	20 mg
T-904	Trimipramine (unlabeled)	1 mg/mL in methanol	1 mL
S-077	UR-144 5-Hydroxypentyl metabolite (unlabeled)	100 µg/mL in methanol	1 mL
S-090	UR-144 5-Pentanoic acid metabolite (indole-D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
S-078	UR-144 5-Pentanoic acid metabolite (unlabeled)	100 µg/mL in methanol	1 mL
V-048	Valeryl fentanyl·HCl (unlabeled)	100 µg/mL in methanol (as free base)	0.5 mL
V-029	Valproic acid (D <sub>6</sub> , 98%)	1 mg/mL in methanol	1 mL
V-006	Valproic acid (unlabeled)	1 mg/mL in methanol	1 mL

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**Drugs and Their Metabolites** (continued)

Catalog No.	Description	Concentration	Unit Size
V-902	Vardenafil dihydrochloride (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
V-009	Venlafaxine-HCl ( $D_6$ , 98%)	100 $\mu$ g/mL in methanol (as free base)	1 mL
V-004	Venlafaxine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
V-002	Verapamil-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
V-036	( $\pm$ )-Voriconazole ( $D_3$ , 98%)	1 mg/mL in methanol	1 mL
W-003	Warfarin (unlabeled)	1 mg/mL in acetonitrile	1 mL
CDLM-10540	Yohimbine (methyl- $^{13}\text{C}$ , 99%; methyl- $D_3$ ester, 98%)	neat	5 mg, 10 mg
Z-010	Zaleplon ( $D_4$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
Z-004	Zaleplon (unlabeled)	1 mg/mL in methanol	1 mL
Z-018	Ziprasidone-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
Z-001	Zolpidem ( $D_6$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
Z-008	Zolpidem ( $D_7$ , 98%)	100 $\mu$ g/mL in methanol	1 mL
CNLM-10641-B	Zolpidem (carbonyl-1,2- $^{13}\text{C}_2$ , 98%; amide- $^{15}\text{N}$ , 98%) CP 95%	50 $\mu$ g/mL in methanol	1 mL
Z-017	Zolpidem (unlabeled)	1 mg/mL in methanol	1 mL
Z-007	Zolpidem phenyl-4-carboxylic acid (unlabeled)	500 $\mu$ g/mL in acetonitrile:water (1:1)	1 mL
Z-005	Zonisamide (unlabeled)	1 mg/mL in methanol	1 mL
Z-902	Zopiclone ( $D_4$ , 98%)	1 mg/mL in acetonitrile	1 mL
Z-003	Zopiclone (unlabeled)	1 mg/mL in acetonitrile	1 mL

\*BHT: butylated hydroxytoluene

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Fatty Acids and Lipids

Catalog No.	Description	Abbreviation	Unit Size
CLM-9397	Acetyl coenzyme A, lithium salt (acetyl-1,2- <sup>13</sup> C <sub>2</sub> , 99%) CP 95%	Acetyl-CoA	Please inquire
DLM-2115	Adipic acid (D <sub>10</sub> , 98%)	neat	Please inquire
DLM-10481	Arachidic acid (2,2-D <sub>2</sub> , 98%)	20:0	Please inquire
DLM-1234	Arachidic acid (methyl-D <sub>3</sub> , 98%) CP 97%	20:0	0.1 g
DLM-10519	Arachidic acid (12,12,13,13-D <sub>4</sub> , 98%)	20:0	0.1 g, 0.25 g
DLM-1233	Arachidic acid (D <sub>39</sub> , 98%)	20:0	1 g
DLM-1661-N	Arachidonic acid (5,6,8,9,11,12,14,15-D <sub>8</sub> , 98%)	20:4	5 mg, 10 mg
ULM-10272	Arachidonic acid (unlabeled)	20:4	Please inquire
CLM-8397	Arachidonic acid, methyl ester (arachidonate- <sup>13</sup> C <sub>20</sub> , 98%) CP 95%	20:4	0.1 g
CLM-9666	Butyric acid (1- <sup>13</sup> C, 99%)	BTA	1 g
CLM-9215	Butyric acid ( <sup>13</sup> C <sub>4</sub> , 99%)	BTA	0.1 g
DLM-1110	Butyric acid (3,3,4,4,4-D <sub>5</sub> , 97-98%)	BTA	Please inquire
DLM-1508	Butyric acid (D <sub>7</sub> , 98%)	BTA	5 g
CLM-9768	Butyryl coenzyme A, lithium salt (butyryl- <sup>13</sup> C <sub>4</sub> , 99%) CP 95%	Butyryl-CoA	Please inquire
DLM-8272	L-Carnitine·ClO <sub>4</sub> , 3-hydroxyisovaleryl (N-methyl-D <sub>3</sub> , 98%)	C5OH	1 mg
DLM-3975	L-Carnitine (mono)·ClO <sub>4</sub> , O-glutaryl (N-methyl-D <sub>3</sub> , 98%) CP 97%	C5DC	0.1 mg
DLM-9189	L-Carnitine (mono)·ClO <sub>4</sub> , O-3-DL-hydroxypalmitoyl (N-methyl-D <sub>3</sub> , 98%)	C16OH	0.1 mg
DLM-1871	L-Carnitine·HCl (methyl-D <sub>3</sub> , 98%)	C0	0.1 g
DLM-3820	L-Carnitine·HCl (dimethyl-D <sub>6</sub> , 98%)	C0	Please inquire
DLM-754	L-Carnitine·HCl, O-acetyl (N-methyl-D <sub>3</sub> , 98%)	C2	0.05 g
DLM-3861	L-Carnitine·HCl, O-butyryl (N-methyl-D <sub>3</sub> , 98%) CP 97%	C4	0.01 g
DLM-8746	L-Carnitine·HCl, O-dec-2-enoyl (95% E) (N,N,N-trimethyl-D <sub>9</sub> , 98%)	C10:1	Please inquire
DLM-8162	L-Carnitine·HCl, O-dodecanoyl (N-methyl-D <sub>3</sub> , 98%)	C12	0.1 mg
DLM-6718	L-Carnitine·HCl, O-hexacosanoyl (N-methyl-D <sub>3</sub> , 98%) CP 95%	C26	Please inquire
DLM-3974	L-Carnitine·HCl, O-isovaleryl (N,N,N-trimethyl-D <sub>9</sub> , 98%)	C5	5 mg
DLM-4425	L-Carnitine·HCl, O-myristoyl (N,N,N-trimethyl-D <sub>9</sub> , 98%)	C14	5 mg
DLM-10279	Coenzyme Q10 (dimethoxy-D <sub>6</sub> , methyl-D <sub>3</sub> , 98%) CP 97%		1 mg, 5 mg
DLM-2006	Decanoic acid (methyl-D <sub>3</sub> , 98%)	10:0	0.5 g, 1 g
DLM-270	Decanoic acid (D <sub>19</sub> , 98%)	10:0	1 g
CLM-8388	Docosahexaenoic acid (U- <sup>13</sup> C <sub>22</sub> , 99%) may contain 5% DPA*	22:6	1 mg, 5 mg
DLM-10012	Docosahexaenoic acid (21,21,22,22,22-D <sub>5</sub> , 98%)	22:6	1 mg, 5 mg
ULM-10013	Docosahexaenoic acid (unlabeled)	22:6	1 mg, 5 mg
DLM-10015	Docosahexaenoic acid, ethyl ester (21,21,22,22,22-D <sub>5</sub> , 98%) CP 95%	22:6	Please inquire
ULM-10016	Docosahexaenoic acid, ethyl ester (unlabeled) CP 95%	22:6	Please inquire
CLM-8398	Docosahexaenoic acid, methyl ester (DHA U- <sup>13</sup> C <sub>22</sub> , 99%) may contain 5% DPA*	22:6	1 mg, 5 mg
DLM-10014	Docosahexaenoic acid, methyl ester (21,21,22,22,22-D <sub>5</sub> , 98%) CP 97%	22:6	1 mg
CLM-9909	Docosanoic acid (1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	22:0	Please inquire
DLM-9180	Docosanoic acid (22,22,22-D <sub>3</sub> , 98%)	22:0	Please inquire
DLM-9951	Docosanoic acid (3,3,5,5-D <sub>4</sub> , 98%) CP 95%	22:0	Please inquire
DLM-10503	Docosanoic acid (12,12,13,13-D <sub>4</sub> , 98%)	22:0	0.1 g, 0.25 g
DLM-4703	Docosanoic acid (D <sub>43</sub> , 98%)	22:0	Please inquire
DLM-2274	Dodecylphosphocholine (D <sub>38</sub> , 98%)	C12-PC	0.1 mg, 0.5 g
ULM-2313	Dodecylphosphocholine (unlabeled) CP 90%	C12-PC	0.1 mg
DLM-9720	cis-5,8,11,14,17-Eicosapentaenoic acid (19,19,20,20,20-D <sub>5</sub> , 98%)	20:5	1 mg, 5 mg
ULM-10024	cis-5,8,11,14,17-Eicosapentaenoic acid (unlabeled)	20:5	1 mg, 5 mg
DLM-10559	cis-5,8,11,14,17-Eicosapentaenoic acid, methyl ester (19,19,20,20,20-D <sub>5</sub> , 98%) CP 95%	20:5	1 mg
CLM-8389	Eicosapentaenoic acid ( <sup>13</sup> C <sub>20</sub> , 98%)	20:5	0.1 g
DLM-10558	Eicosapentaenoic acid, ethyl ester (19,19,20,20,20-D <sub>5</sub> , 98%) CP 95%	20:5	Please inquire
CLM-8399	Eicosapentaenoic acid, methyl ester (eicosapentaenoate- <sup>13</sup> C <sub>20</sub> , 90%)	20:5	0.1 g
CLM-7768	Epicholesterol (3,4- <sup>13</sup> C <sub>2</sub> , 99%)		0.1 g
CLM-8274	Ethyl hexanoate (hexanoate- <sup>13</sup> C <sub>6</sub> , 99%)		Please inquire
DLM-6726	n-octyl-β-Glucoside (D <sub>24</sub> , 98%)	β-C8 Glc	0.1 g
DLM-1308	Heptadecanoic acid (methyl-D <sub>3</sub> , 98%)	17:0	0.1 g

\*DPA: docosapentaenoic acid

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**Fatty Acids and Lipids** (continued)

Catalog No.	Description	Abbreviation	Unit Size
DLM-6905	Heptadecanoic acid (D <sub>33</sub> , 98%)	17:0	0.25 g, 0.5 g
DLM-1820	Heptanoic acid (2,2,3,3-D <sub>4</sub> , 98%)	7:0	Please inquire
DLM-2731	Heptanoic acid (D <sub>13</sub> , 98%)	7:0	0.5 g
CLM-9790	Hexacosanoic acid (1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	26:0	Please inquire
DLM-9953	Hexacosanoic acid (3,3,5,5-D <sub>4</sub> , 98%) CP 95%	26:0	Please inquire
DLM-8510	Hexacosanoic acid (12,12,13,13-D <sub>4</sub> , 98%)	26:0	0.1 g
CLM-3519	Hexanoic acid (1- <sup>13</sup> C, 99%)	6:0	0.5 g
DLM-3030	Hexanoic acid (2,2-D <sub>2</sub> , 98%)	6:0	Please inquire
DLM-612	Hexanoic acid (methyl-D <sub>3</sub> , 98%)	6:0	0.1 g, 0.5 g, 1 g
DLM-277	Hexanoic acid (D <sub>11</sub> , 98%)	6:0	0.1 g, 1 g
ULM-10267	7- $\alpha$ -Hydroxycholesterol (unlabeled)		1 mg
DLM-2922	DL-3-Hydroxymyristic acid (2,2,3,4,4-D <sub>5</sub> , 96%)	14:0	Please inquire
CLM-2095	Isovaleric acid (1- <sup>13</sup> C, 99%)	5:0	1 g
CLM-10348	Isovaleric acid (2,3,4- <sup>13</sup> C <sub>3</sub> , 3-methyl- <sup>13</sup> C, 99%)	5:0	Please inquire
CLM-1586	Lauric acid (1- <sup>13</sup> C, 99%)	12:0	1 g, 5 g
DLM-3062	Lauric acid (methyl-D <sub>3</sub> , 99%)	12:0	0.5 g, 1 g
DLM-563	Lauric acid (D <sub>23</sub> , 98%)	12:0	1 g
CLM-9688	Linoleic acid (1- <sup>13</sup> C, 99%)	18:2	1 g
CLM-6855	Linoleic acid (U- <sup>13</sup> C <sub>18</sub> , 98%) (<10% cis/trans isomer) CP 94%	18:2	0.1 mg, 0.1 g, 0.25 g, 1 g
CLM-2119	Linoleic acid, ethyl ester (1- <sup>13</sup> C, 99%)	18:2	Please inquire
CLM-3960	Linoleic acid, ethyl ester (U-linoleate- <sup>13</sup> C <sub>18</sub> , 98%) CP 95%	18:2	0.5 g
CLM-3960-MPT	Linoleic acid, ethyl ester (U-linoleate- <sup>13</sup> C <sub>18</sub> , 98%) CP 95%	18:2	Please inquire
DLM-1909	Linoleic acid, ethyl ester (9,10,12,13-D <sub>4</sub> , 95%)	18:2	Please inquire
DLM-227	Linoleic acid, ethyl ester (17,17,18,18,18-D <sub>5</sub> , 98%)	18:2	Please inquire
DLM-766	Linoleic acid, ethyl ester (D <sub>31</sub> , 98%) CP 95%	18:2	Please inquire
CLM-8395	Linoleic acid, methyl ester (U-linoleate- <sup>13</sup> C <sub>18</sub> , 98%) CP 95%	18:2	0.1 g, 0.25 g, 1 g
DLM-9663	Linoleic acid, methyl ester (D <sub>31</sub> , 98%) CP 95%	18:2	Please inquire
CLM-6229	Linoleic acid, potassium salt (1- <sup>13</sup> C, 99%)	18:2	1 g
CLM-8835	Linoleic acid, potassium salt (U- <sup>13</sup> C <sub>18</sub> , 98%) CP 97%	18:2	Please inquire
CLM-10487	Linoleic acid, sodium salt (U- <sup>13</sup> C <sub>18</sub> , 98%) may have up to 5% isomers CP 94%	18:2	Please inquire
CLM-8386	Linolenic acid (U- <sup>13</sup> C <sub>18</sub> , 98%) CP 95%	18:3	0.1 g, 1 g
DLM-9348	Linolenic acid (17,17,18,18,18-D <sub>5</sub> , 98%) CP 90%	18:3	Please inquire
DLM-2351	Linolenic acid, ethyl ester (17,17,18,18,18-D <sub>5</sub> , 98%) CP 95%	18:3	0.25 g
CLM-8396	Linolenic acid, methyl ester (linolenate- <sup>13</sup> C <sub>18</sub> , 98%) CP 95%	18:3	0.1 g, 0.25 g, 1 g
DLM-10520	Lysophosphatidylcholine 20:0 (eicosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	LYSO-PC 20:0	1 mg, 5 mg
ULM-10521	Lysophosphatidylcholine 20:0 (unlabeled)	LYSO-PC 20:0	5 mg, 10 mg
CLM-10499	Lysophosphatidylcholine 22:0 (docosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	LYSO-PC 22:0	1 mg, 5 mg
DLM-10500	Lysophosphatidylcholine 22:0 (docosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	LYSO-PC 22:0	1 mg, 5 mg
ULM-10498	Lysophosphatidylcholine 22:0 (unlabeled)	LYSO-PC 22:0	5 mg, 10 mg
CLM-10496	Lysophosphatidylcholine 24:0 (tetracosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	LYSO-PC 24:0	1 mg, 5 mg
DLM-10497	Lysophosphatidylcholine 24:0 (tetracosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	LYSO-PC 24:0	1 mg, 5 mg
ULM-10495	Lysophosphatidylcholine 24:0 (unlabeled)	LYSO-PC 24:0	5 mg, 10 mg
CLM-9792	Lysophosphatidylcholine 26:0 (hexacosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	LYSO-PC 26:0	1mg, 5mg
DLM-10501	Lysophosphatidylcholine 26:0 (hexacosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	LYSO-PC 26:0	1 mg, 5 mg
ULM-9791	Lysophosphatidylcholine 26:0 (unlabeled)	LYSO-PC 26:0	5 mg, 10 mg
CLM-1844	Myristic acid (1- <sup>13</sup> C, 99%)	14:0	1 g
CLM-3665	Myristic acid (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%)	14:0	0.5 g
DLM-1039	Myristic acid (methyl-D <sub>3</sub> , 98%)	14:0	0.1 g
DLM-7487	Myristic acid (13,13,14,14,14-D <sub>5</sub> , 98%)	14:0	Please inquire
DLM-208	Myristic acid (D <sub>27</sub> , 98%)	14:0	1 g
CLM-6228	Myristic acid, potassium salt (1- <sup>13</sup> C, 99%)	14:0	Please inquire
CLM-8695	Myristic acid, sodium salt (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%)	14:0	0.5 g

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Catalog No.	Description	Abbreviation	Unit Size
DLM-10367	Nonadecanoic acid ( $D_{37}$ , 98%)	19:0	Please inquire
CLM-8724	Nonanoic acid (U- $^{13}C_9$ , 98%)	9:0	Please inquire
DLM-7490	Nonanoic acid (9,9,9- $D_3$ , 98%)	9:0	Please inquire
DLM-9501	Nonanoic acid ( $D_{17}$ , 98%)	9:0	0.5 g, 1 g
CLM-293	Octanoic acid (1- $^{13}C$ , 99%)	8:0	1 g, 5 g
CLM-293-MPT	Octanoic acid (1- $^{13}C$ , 99%)	8:0	Please inquire
CLM-3827	Octanoic acid (1,2- $^{13}C_2$ , 99%)	8:0	1 g
CLM-2721	Octanoic acid (1,2,3,4- $^{13}C_4$ , 99%)	8:0	0.25 g
CLM-3981	Octanoic acid ( $^{13}C_8$ , 99%)	8:0	Please inquire
DLM-619	Octanoic acid ( $D_{15}$ , 98%)	8:0	1 g
CLM-4259	2-Octanoyl-1,3-diolein (octanoyl-1,2- $^{13}C_2$ , 99%)		Please inquire
CLM-3707	2-Octanoyl-1,3-distearin (octanoic-1- $^{13}C$ , 99%)		1 g, 10 g
CLM-3707-MPT	2-Octanoyl-1,3-distearin (octanoic-1- $^{13}C$ , 99%)		Please inquire
CLM-4258	2-Octanoyl-1,3-distearin (octanoyl-1,2- $^{13}C_2$ , 99%)		1 g
CLM-149	Oleic acid (1- $^{13}C$ , 99%)	18:1	0.5 g, 1 g
CLM-149-MPT	Oleic acid (1- $^{13}C$ , 99%)	18:1	Please inquire
CLM-2492	Oleic acid (methyl- $^{13}C$ , 99%)	18:1	0.25 g
CLM-460	Oleic acid (U- $^{13}C_{18}$ , 98%)	18:1	Please inquire
DLM-689	Oleic acid (9,10- $D_2$ , 97%)	18:1	0.1 g
DLM-689-MPT	Oleic acid (9,10- $D_2$ , 97%)	18:1	Please inquire
DLM-1891	Oleic acid ( $D_{33}$ , 98%)	18:1	Please inquire
CLM-3959	Oleic acid, ethyl ester (oleate-U- $^{13}C_{18}$ , 98%) CP 95%	18:1	1 g
DLM-8747	Oleic acid, ethyl ester ( $D_{33}$ , 98%) CP 95%	18:1	Please inquire
CLM-4337	Oleic acid, methyl ester (oleate- $^{13}C_{18}$ , 98%)	18:1	Please inquire
CLM-4477	Oleic acid, potassium salt (1- $^{13}C$ , 99%)	18:1	1 g
CLM-8856	Oleic acid, potassium salt (U- $^{13}C_{18}$ , 98%) CP 95%	18:1	Please inquire
DLM-8837	Oleic acid, potassium salt (15,15,16,16,17,17,18,18,18- $D_9$ , 98%)	18:1	Please inquire
CLM-6230	Oleic acid, sodium salt (1- $^{13}C$ , 99%)	18:1	Please inquire
CLM-8763	Oleic acid, sodium salt (U- $^{13}C_{18}$ , 98%)	18:1	Please inquire
NLM-10511	Oleylamine ( $^{15}N$ , 98%)	18:1	Please inquire
CLM-150	Palmitic acid (1- $^{13}C$ , 99%)	16:0	1 g, 5 g, 10 g
CLM-150-MPT	Palmitic acid (1- $^{13}C$ , 99%)	16:0	Please inquire
CLM-2120	Palmitic acid (2- $^{13}C$ , 99%)	16:0	1 g
CLM-214	Palmitic acid (1,2- $^{13}C_2$ , 99%)	16:0	0.5 g
CLM-7896	Palmitic acid (1,2,3,4- $^{13}C_4$ , 99%)	16:0	1 g
CLM-7896-MPT	Palmitic acid (1,2,3,4- $^{13}C_4$ , 99%)	16:0	Please inquire
CLM-409	Palmitic acid ( $^{13}C_{16}$ , 98%)	16:0	0.5 g
CLM-409-MPT	Palmitic acid (U- $^{13}C_{16}$ , 98%)	16:0	Please inquire
DLM-8673	Palmitic acid (12- $D$ , 98%)	16:0	Please inquire
DLM-1153	Palmitic acid (2,2- $D_2$ , 98%)	16:0	1 g
DLM-2890	Palmitic acid (9,9- $D_2$ , 98%)	16:0	1 g
DLM-2891	Palmitic acid (13,13- $D_2$ , 98%)	16:0	0.5 g
DLM-611	Palmitic acid (methyl- $D_3$ , 98%)	16:0	0.5 g
DLM-2893	Palmitic acid (7,7,8,8- $D_4$ , 98%)	16:0	0.1 g, 0.5 g
DLM-2893-MPT	Palmitic acid (7,7,8,8- $D_4$ , 98%)	16:0	Please inquire
DLM-2894	Palmitic acid (11,11,12,12- $D_4$ , 98%)	16:0	Please inquire
DLM-9424	Palmitic acid (13,13,14,14,15,15,16,16- $D_9$ , 98%)	16:0	Please inquire
DLM-2895	Palmitic acid (9,9,10,10,11,11,12,12,13,13,14,14,15,15,16,16,16- $D_{17}$ , 98%) CP 97%	16:0	0.1 g
DLM-215	Palmitic acid ( $D_{31}$ , 98%)	16:0	1 g
DLM-215-MPT	Palmitic acid ( $D_{31}$ , 98%)	16:0	Please inquire
CLM-3957	Palmitic acid, ethyl ester (palmitate- $^{13}C_{16}$ , 98%) CP 95%	16:0	1 g
DLM-8793	Palmitic acid, ethyl ester ( $D_{31}$ , 98%)	16:0	Please inquire

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**Fatty Acids and Lipids** (continued)

Catalog No.	Description	Abbreviation	Unit Size
CLM-8390	Palmitic acid, methyl ester (palmitate- <sup>13</sup> C <sub>16</sub> , 98%)	16:0	0.25 g, 1 g
CLM-2241	Palmitoleic acid (U- <sup>13</sup> C <sub>16</sub> , 98%) CP 97%	16:1	5 mg, 10 mg
CLM-3958	Palmitoleic acid, ethyl ester (palmitoleate-U- <sup>13</sup> C <sub>16</sub> , 98%) CP 97%	16:1	Please inquire
CLM-8391	Palmitoleic acid, methyl ester (palmitoleate-U- <sup>13</sup> C <sub>16</sub> , 98%) CP 97%	16:1	Please inquire
DLM-1307	Pentadecanoic acid (methyl-D <sub>3</sub> , 98%)	15:1	0.1 g
CLM-10349	Pentanoic acid (3,5- <sup>13</sup> C <sub>2</sub> , 99%)	5:0	Please inquire
DLM-572	Pentanoic acid (D <sub>9</sub> , 98%)	5:0	1 g, 5 g
DLM-4341	DL- $\alpha$ -Phosphatidylcholine, dihexanoyl (DHPC) (D <sub>40</sub> , 98%) CP 95%	DHPC 12:0	0.1 g
CLM-9668	DL- $\alpha$ -Phosphatidylcholine, dipalmitoyl (DPPC) (U- <sup>13</sup> C <sub>40</sub> , 98%) CP 95%	DPPC 16:0	0.05 g
DLM-8256	DL- $\alpha$ -Phosphatidylcholine, dipalmitoyl (DPPC) (D <sub>80</sub> , 98%) CP 95%	DPPC 16:0	Please inquire
DLM-605	L- $\alpha$ -Phosphatidylcholine, dimyristoyl (DMPC) (dimyristoyl-D <sub>54</sub> , 97%) CP 95%	DMPC 28:0	0.1 g
DLM-606	L- $\alpha$ -Phosphatidylcholine, dipalmitoyl (DPPC) (dipalmitoyl-D <sub>62</sub> , 98%) CP 95%	DPPC 16:0	0.1 g
CDLM-7572	L- $\alpha$ -Phosphatidylcholine, dipalmitoyl (DPPC) (palmitate- <sup>13</sup> C <sub>32</sub> , 98%; methyl-D <sub>9</sub> , choline, 98%) CP 95%	DPPC 16:0	Please inquire
DLM-7557	L-Phosphatidylglycerol, dipalmitoyl (DPPG) (dipalmitoyl-D <sub>62</sub> , 98%)	DPPG 16:0	Please inquire
CLM-1889	Potassium palmitate (1- <sup>13</sup> C, 99%)	16:0	1 g
CLM-1889-MPT	Potassium palmitate (1- <sup>13</sup> C, 99%)	16:0	Please inquire
CLM-6865	Potassium palmitate (1,2,3,4- <sup>13</sup> C <sub>4</sub> , 99%)	16:0	Please inquire
CLM-3943	Potassium palmitate (U- <sup>13</sup> C <sub>16</sub> , 98%)	16:0	0.5 g
CLM-3943-MPT	Potassium palmitate (U- <sup>13</sup> C <sub>16</sub> , 98%)	16:0	Please inquire
DLM-3773	Potassium palmitate (2,2-D <sub>2</sub> , 97%)	16:0	1 g
DLM-3773-MPT	Potassium palmitate (2,2-D <sub>2</sub> , 97%)	16:0	Please inquire
DLM-6199	Potassium palmitate (methyl-D <sub>3</sub> , 98%)	16:0	Please inquire
DLM-6033	Potassium palmitate (7,7,8,8-D <sub>4</sub> , 98%)	16:0	0.5 g
CLM-1256	Sodium butyrate (1- <sup>13</sup> C, 99%)	BTA	1 g, 5 g
CLM-4780	Sodium butyrate (2- <sup>13</sup> C, 99%)	BTA	Please inquire
CLM-10426	Sodium butyrate ( <sup>13</sup> C <sub>4</sub> , 99%)	BTA	0.1 g
DLM-641	Sodium butyrate (3,3,4,4,4-D <sub>5</sub> , 98%)	BTA	Please inquire
DLM-7616	Sodium butyrate (D <sub>7</sub> , 98%)	BTA	1 g
DLM-197	Sodium dodecyl sulfate (D <sub>25</sub> , 98%)	SDS	1 g
CLM-1948	Sodium octanoate (1- <sup>13</sup> C, 99%)	8:0	1 g, 5 g, 10 × 0.1 g
CLM-1948-MPT	Sodium octanoate (1- <sup>13</sup> C, 99%)	8:0	Please inquire
CLM-3876	Sodium octanoate (1,2,3,4- <sup>13</sup> C <sub>4</sub> , 99%)	8:0	0.1 g, 0.25 g
CLM-3980	Sodium octanoate (2,4,6,8- <sup>13</sup> C <sub>4</sub> , 99%)	8:0	Please inquire
CLM-9617	Sodium octanoate ( <sup>13</sup> C <sub>8</sub> , 99%)	8:0	Please inquire
CLM-174	Sodium palmitate (1- <sup>13</sup> C, 99%)	16:0	1 g
CLM-174-MPT	Sodium palmitate (1- <sup>13</sup> C, 99%)	16:0	Please inquire
CLM-6059	Sodium palmitate (U- <sup>13</sup> C <sub>16</sub> , 98%)	16:0	1 g
ULM-9721	N-Decanoyl-D-sphingosine (ceramide D <sub>18</sub> : 1/10:0) (unlabeled)	Cer d28:1	Please inquire
ULM-9722	N-Octanoyl-D-sphingosine (ceramide D <sub>18</sub> : 1/8:0) (unlabeled)	Cer d28:1	Please inquire
CLM-9583	N-Oleoyl-D-sphingosine (ceramide D <sub>18</sub> : 1/18:1 (9z) (oleoyl-U- <sup>13</sup> C <sub>18</sub> , 99%) CP 95%	Cer d36:2	0.1 mg
ULM-9581	N-Oleoyl-D-sphingosine (ceramide D <sub>18</sub> : 1/18:1 (9z) (unlabeled) CP 95%	Cer d36:2	0.1 mg
CLM-9582	N-Palmitoyl-D-sphingosine (ceramide D <sub>18</sub> : 1/16:0) (palmitoyl-U- <sup>13</sup> C <sub>16</sub> , 99%) CP 95%	Cer d34:1	0.1 mg
ULM-9580	N-Palmitoyl-D-sphingosine (ceramide D <sub>18</sub> : 1/16:0) (unlabeled) CP 95%	Cer d34:1	0.1 mg
ULM-9579	Sphingosine (unlabeled) CP 95%		Please inquire
CLM-490	Stearic acid (methyl- <sup>13</sup> C, 99%)	18:0	1 g
CLM-676	Stearic acid (1- <sup>13</sup> C, 99%)	18:0	1 g, 5 g
CLM-6990	Stearic acid (U- <sup>13</sup> C <sub>18</sub> , 98%) CP 97%	18:0	0.25 g
DLM-1154	Stearic acid (methyl-D <sub>3</sub> , 98%)	18:0	0.1 g, 0.25 g
DLM-2712	Stearic acid (17,17,18,18,18-D <sub>5</sub> , 98%)	18:0	0.1 g, 0.5 g
DLM-379	Stearic acid (D <sub>35</sub> , 98%)	18:0	1 g
CLM-8731	Stearic acid, ethyl ester (stearate-U- <sup>13</sup> C <sub>18</sub> , 98%)	18:0	Please inquire

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Catalog No.	Description	Abbreviation	Unit Size
CLM-8394	Stearic acid, methyl ester (stearate-U- <sup>13</sup> C <sub>18</sub> , 98%) CP 95%	18.0	0.25 g, 1 g
CLM-6227	Stearic acid, potassium salt (U- <sup>13</sup> C, 99%)	18.0	Please inquire
CLM-10365	Stearic acid, sodium salt (U- <sup>13</sup> C <sub>18</sub> , 98%) CP 97%	18.0	Please inquire
CLM-9932	Tetracosanoic acid (1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%) CP 96%	24:0	Please inquire
DLM-9952	Tetracosanoic acid (3,3,5,5-D <sub>4</sub> , 98%) CP 95%	24:0	Please inquire
DLM-9179	Tetracosanoic acid (9,9,10,10-D <sub>4</sub> , 98%)	24:0	Please inquire
DLM-10502	Tetracosanoic acid (12,12,13,13-D <sub>4</sub> , 98%)	24:0	0.1g. 0.25g
DLM-7302	Tetracosanoic acid (D <sub>47</sub> , 98%)	24:0	Please inquire
CNL-M-8110	Tiglylglycine (glycine- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 98%)	neat	Please inquire
DLM-1392	Tridecanoic acid (D <sub>25</sub> , 98%)	13:0	0.5 g, 1 g
CLM-162	Trioctanoin (1,1,1- <sup>13</sup> C <sub>3</sub> , 99%)	TG(8:0/8:0/8:0)	0.25 g, 0.5 g, 1 g
CLM-162-MPT	Trioctanoin (1,1,1- <sup>13</sup> C <sub>3</sub> , 99%)	TG(8:0/8:0/8:0)	Please inquire
CLM-163	Triolein (1,1,1- <sup>13</sup> C <sub>3</sub> , 99%)	TG(18:1/18:1/18:1)	0.1 g, 0.5 g
CLM-163-MPT	Triolein (1,1,1- <sup>13</sup> C <sub>3</sub> , 99%)	TG(18:1/18:1/18:1)	Please inquire
CLM-8445	Tripalmitin (glyceryl- <sup>13</sup> C <sub>3</sub> , 99%)	TG(16:0/16:0/16:0)	Please inquire
CLM-164	Tripalmitin (1,1,1- <sup>13</sup> C <sub>3</sub> , 99%)	TG(16:0/16:0/16:0)	0.25 g, 0.5 g, 1 g
CLM-164-MPT	Tripalmitin (1,1,1- <sup>13</sup> C <sub>3</sub> , 99%)	TG(16:0/16:0/16:0)	Please inquire
CLM-350	Tripalmitin (2,2,2- <sup>13</sup> C <sub>3</sub> , 99%)	TG(16:0/16:0/16:0)	0.1 g
CLM-9468	Tripalmitin (1,1,1,2,2,2,3,3,3,4,4,4- <sup>13</sup> C <sub>12</sub> , 99%)	TG(16:0/16:0/16:0)	Please inquire
DLM-9986	Tripalmitin (glyceryl-D <sub>5</sub> , 98-99%)	TG(16:0/16:0/16:0)	Please inquire
DLM-9462	Tripalmitin (trispalmitoyl-D <sub>93</sub> , 98%)	TG(16:0/16:0/16:0)	0.5 g
DLM-9044	Tripalmitin (D <sub>98</sub> , 98%)	TG(16:0/16:0/16:0)	Please inquire
DLM-7875	Tristearin (tristearoyl-D <sub>105</sub> , 98%)	TG(18:0/18:0/18:0)	Please inquire
CLM-3399	Valproic acid (1,2,3,3'- <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
DLM-7876	Valproic acid (propyl-1,1-D <sub>2</sub> , pentanoic-3,3-D <sub>2</sub> , 98%)	neat	Please inquire
DLM-4291	Valproic acid (4,4,4',4'-D <sub>4</sub> , 98%)	neat	0.1 g
DLM-8875	Valproic acid (D <sub>15</sub> , 98%)	neat	Please inquire

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## Gases

### Calibration Standards

We are pleased to offer four CO<sub>2</sub> standards for use in <sup>13</sup>C-urea breath analysis. These gas calibration standards are designed to mimic <sup>13</sup>CO<sub>2</sub> levels in normal breath (baseline calibrant) and at three enriched levels (low-, mid-, and high-level calibrants). Each is gravimetrically prepared and analyzed for <sup>13</sup>C content by isotope ratio mass spectrometry (IRMS). The <sup>13</sup>C content for the baseline standard is expressed as delta value vs. PDB (Pee Dee Belemnite), with the enriched calibrant gases additionally reported as delta value above baseline (see lot-specific CoA for details).

Catalog No.	Description*	Unit	Stock Packaging
CLM-10584	5% CO <sub>2</sub> in air baseline calibrant gas	10 or 50 L	CODE C or G
CLM-10585	5% CO <sub>2</sub> in air low-level calibrant gas	10 or 50 L	CODE C or G
CLM-10586	5% CO <sub>2</sub> in air mid-level calibrant gas	10 or 50 L	CODE C or G
CLM-10587	5% CO <sub>2</sub> in air high-level calibrant gas	10 or 50 L	CODE C or G

► Please visit [isotope.com](http://isotope.com) for a complete listing of high-purity gases and mixtures.

## Glycan Standards

CIL is pleased to offer high-quality glycan standards, available in <sup>13</sup>C-labeled and unlabeled forms, provided as purified powders and packaged in self-standing, microcentrifuge tubes in 500 pmol quantities. For a complete listing of available glycans, please visit [shop.isotope.com](http://shop.isotope.com).

## INLIGHT™ Glycan Tagging Kits

Catalog No.	Description	Amount
GTK-1000	INLIGHT Glycan Tagging Kit	1 Kit

## Metabolomics Mixes and Kits

### Metabolomics Mixes

Catalog No.	Description	Unit Size
CLM-1548	Algal amino acid mixture (U- <sup>13</sup> C, 97-99%)	0.5 g, 1 g
DLM-2082	Algal amino acid mixture (U-D, 98%)	1 g
NLM-2161	Algal amino acid mixture (U- <sup>15</sup> N, 98%)	0.5 g, 1 g
CNLM-452	Algal amino acid mixture (U- <sup>13</sup> C, 97-99%; U- <sup>15</sup> N, 97-99%)	0.5 g, 1 g
DNLM-819	Algal amino acid mixture (U-D, 98%; U- <sup>15</sup> N, 98%)	0.5 g, 1 g
CDNLM-2496	Algal amino acid mixture (U- <sup>13</sup> C, 97-99%; U-D, 97-99%; U- <sup>15</sup> N, 97-99%)	0.5 g
ULM-2314	Algal amino acid mixture (unlabeled)	1 g
CLM-2065	Algal lyophilized cells (U- <sup>13</sup> C, 98%)	0.5 g, 1 g
DLM-2066	Algal lyophilized cells (U-D, 98%)	1 g, 5 g
NLM-2162	Algal lyophilized cells (U- <sup>15</sup> N, 96-99%)	1 g
CNLM-455	Algal lyophilized cells (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 96-99%)	1 g
CDLM-3441	Algal lyophilized cells (U- <sup>13</sup> C, 98%; U-D, 98%)	Please inquire
DNLM-839	Algal lyophilized cells (U-D, 98%; U- <sup>15</sup> N, 96-99%)	Please inquire
CDNLM-3677	Algal lyophilized cells (U- <sup>13</sup> C, 98%; U-D, 98%; U- <sup>15</sup> N, 96-99%)	Please inquire
ULM-2177	Algal lyophilized cells (unlabeled)	Please inquire
DLM-6819	"Cell Free" amino acid mix (20 AA) (U-D, 98%)	1 g
NLM-6695	"Cell Free" amino acid mix (20 AA) (U- <sup>15</sup> N, 96-98%)	1 g
CNLM-6696	"Cell Free" amino acid mix (20 AA) (U- <sup>13</sup> C, 97-99%; U- <sup>15</sup> N, 97-99%)	1 g
DNLM-6818	"Cell Free" amino acid mix (20 AA) (D, 98%; <sup>15</sup> N, 98%)	1 g
CDNLM-6784	"Cell Free" amino acid mix (20 AA) (U- <sup>13</sup> C, 97-99%; U-D, 97-99%; U- <sup>15</sup> N, 97-99%)	0.5 g
ULM-7891	"Cell Free" amino acid mix (20 AA) (unlabeled)	1 g
DLM-7862	Equimolar mix: ATP, GTP (ribose-3',4',5',5"-D <sub>4</sub> , 98%); CTP, UTP (5-D, ribose-3',4',5',5'-D <sub>4</sub> , 98%) NH <sub>4</sub> <sup>+</sup> salt	100 mg
MSK-A2	Metabolomics amino acid mix standard	1.2 mL
MSK-A2-US	Metabolomics amino acid mix standard (unlabeled)	1.2 mL
CLM-8455	Mixed fatty acids (U- <sup>13</sup> C, 98%)	0.25 g, 1 g
DLM-8572	Mixed fatty acids (U-D, 96-98%)	Please inquire
CDLM-8376	Mixed fatty acids (U- <sup>13</sup> C, 98%; U-D, 97%)	0.25 g, 1 g
CLM-8381	Mixed fatty acid methyl esters (U- <sup>13</sup> C, 98%) (terminal ester unlabeled) CP 95%	0.25 g, 1 g
DLM-2497	Mixed fatty acid methyl esters (U-D, 96-98%)	1 g, 5 g
DLM-8375	Mixed triglycerides (U-D, 97%)	0.25 g

### Metabolomics Kits

Catalog No.	Description	Unit Size
MSK-CRED-KIT	Credentialed <i>E. coli</i> Cell Extract Kit (solution)	1 kit
MSK-CRED-DD-KIT	Credentialed <i>E. coli</i> Cell Extract Kit (dried down)	1 kit
IROA-100-50	IROA 100 for Yeast/Fungi Metabolic Profiling <sup>13</sup> C Biochemical Quantitation Kit	1 kit
IROA-200-50	IROA 200 for Bacterial Metabolic Profiling <sup>13</sup> C Biochemical Quantitation Kit	1 kit
IROA-200-UL	Unlabeled Bacterial Media	1 kit
IROA-300-250	IROA 300 for Mammalian Metabolic Profiling <sup>13</sup> C Biochemical Quantitation Kit	1 kit
IROA-300-UL	Unlabeled Mammalian Media	1 kit
IROA-PHENO-95-300	IROA 300 for Phenotypic Metabolic Profiling <sup>13</sup> C Biochemical Quantitation Kit	1 kit
IROA-FLUX-05-300	IROA 300 for Fluxomic Metabolic Profiling <sup>13</sup> C Biochemical Quantitation Kit	1 kit
ISO1	Metabolite Yeast Extract (U- <sup>13</sup> C, 98%)	1 kit
ISO1-UNL	Metabolite Yeast Extract (unlabeled)	1 kit
MSK-QC-KIT	Metabolomics QC Kit	1 kit

► New mixes and kits are under development. Please visit [isotope.com](http://isotope.com) for the most current listing.

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## Mouse Feed

### Mouse Express®

Catalog No.	Description	Concentration	Unit Size
MF-AHA	Mouse Express AHA Mouse Feed	neat	Please inquire
MF-HAHA	Mouse Express hAHA Mouse Feed	neat	Please inquire
MLK-HAHA-KIT	Mouse Express hAHA Mouse Feed Kit	neat	1 kit
MF-LEU-D3	Mouse Express L-Leucine Mouse Feed (5,5,5-D <sub>3</sub> , 99%)	neat	Please inquire
MF-LEU-UNLABLED	Mouse Express L-Leucine Mouse Feed (unlabeled)	neat	Please inquire
MLK-LEU-D3	Mouse Express L-Leucine Mouse Feed Kit	neat	1 kit
MF-LEU-D3-IR	Mouse Express L-Leucine Irradiated Mouse Feed (5,5,5-D <sub>3</sub> , 99%)	neat	Please inquire
MF-LEU-D3-IR-UNLABLED	Mouse Express L-Leucine Irradiated Mouse Feed (unlabeled)	neat	Please inquire
MLK-LEU-D3-IR	Mouse Express L-Leucine Irradiated Mouse Feed Kit	neat	1 kit
MF-LYS-C	Mouse Express L-Lysine Mouse Feed ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
MF-LYS-C-UNLABLED	Mouse Express L-Lysine Mouse Feed (unlabeled)	neat	Please inquire
MLK-LYS-C	Mouse Express L-Lysine Mouse Feed Kit	neat	1 kit
MF-LYS-C-IR	Mouse Express L-Lysine Irradiated Mouse Feed ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
MF-LYS-C-IR-UNLABLED	Mouse Express L-Lysine Irradiated Mouse Feed (unlabeled)	neat	Please inquire
MLK-LYS-C-IR	Mouse Express L-Lysine Irradiated Mouse Feed Kit	neat	1 kit
MF-LYS-NEU2	Mouse Express L-Lysine 2-plex NeuCode™ Mouse Feed	neat	1 or 3 week kit
MF-LYS-NEU3	Mouse Express L-Lysine 3-plex NeuCode™ Mouse Feed	neat	1 or 3 week kit
MF-LYS-NEU4	Mouse Express L-Lysine 4-plex NeuCode™ Mouse Feed	neat	1 or 3 week kit
MF-UNLABLED-MET	Mouse Express Mouse Feed (unlabeled)	neat	Please inquire

► Please visit [isotope.com](http://isotope.com) for product details.

NeuCode is a trademark of WARF.

Mouse Express is a registered trademark of Cambridge Isotope Laboratories, Inc.

### Spirulina and Mouse Express® (prepared with Spirulina)

Catalog No.	Description	Concentration	Unit Size
CLM-8400	Spirulina Whole Cells (U- <sup>13</sup> C, 97%)	neat	1 g
NLM-8401	Spirulina Whole Cells (U- <sup>15</sup> N, 98%)	neat	1 g
ULM-8453	Spirulina Whole Cells (unlabeled)	neat	Please inquire
MF-Spirulina-N	Mouse Express Mouse Feed ( <sup>15</sup> N, 98%)	neat	Please inquire
MF-Spirulina-U	Mouse Express Mouse Feed (unlabeled)	neat	Please inquire
MLK-Spirulina-N	Mouse Express Mouse Feed Kit ( <sup>15</sup> N, 98%)	neat	1 kit
MF-Spirulina-N-IR	Mouse Express Irradiated Mouse Feed ( <sup>15</sup> N, 98%)	neat	Please inquire
MF-Spirulina-U-IR	Mouse Express Irradiated Mouse Feed (unlabeled)	neat	Please inquire
MLK-Spirulina-N-IR	Mouse Express Irradiated Mouse Feed Kit ( <sup>15</sup> N, 98%)	neat	1 kit

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## MS/MS Standards

Catalog No.	Description	Unit Size
NSK-A	Labeled Amino Acid Standards Set A	1 vial, 10 vials
NSK-A1	Labeled Amino Acid Standards Set A1	1 vial, 10 vials
NSK-A-US	Unlabeled Amino Acid Standards Set A	1 vial
NSK-B	Labeled Carnitine Standards Set B	1 vial, 10 vials
NSK-B-US	Unlabeled Carnitine Standards Set B	1 vial
NSK-B-G1	Labeled Carnitine Standards Supplement to NSK-B	1 vial, 10 vials
NSK-B-G1-US	Unlabeled Carnitine Standards Supplement to NSK-B	1 vial
NSK-AB	Labeled Standards Sets A & B	2 x 10 vials
NSK-S-CAH	Labeled Steroid CAH Set S	1 vial, 10 vials
NSK-T	Labeled Succinylacetone Standard Set T	1 vial, 10 vials
NSK-A-TS	Labeled Amino Acid Tuning Standards Set A	1 vial
NSK-B-TS	Labeled Carnitine Tuning Standards Set B	1 vial
NSK-AB-TS	Labeled Tuning Standards Set of A & B	2 x 1 vials
NSK-NI-1	Acid Sphingomyelinase Substrate and Internal Standard	1 vial
NSK-KR-1	Galactocerebrosidase Substrate and Internal Standard	1 vial
NSK-FA-1	$\alpha$ -Galactosidase Substrate and Internal Standard	1 vial
NSK-GA-1	Glucocerebrosidase Substrate and Internal Standard	1 vial
NSK-MP-1	$\alpha$ -L-Iduronidase Substrate and Internal Standard	1 vial
NSK-PO-1	Lysosomal $\alpha$ -Glucosidase Substrate and Internal Standard	1 vial
CLM-3777	N-Acetylglycine (2- <sup>13</sup> C, 99%)	Please inquire
CLM-3678	Adenosine (ribose- <sup>13</sup> C <sub>5</sub> , 98%) CP 97%	0.05 g, 0.1 g
CLM-8755	$\beta$ -Alanine (3- <sup>13</sup> C, 99%)	Please inquire
CLM-8756	$\beta$ -Alanine ( <sup>13</sup> C <sub>3</sub> , 99%)	Please inquire
NLM-1656	$\beta$ -Alanine ( <sup>15</sup> N, 98%)	0.25 g
CNLM-3440	$\beta$ -Alanine (3- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-8457	$\beta$ -Alanine (1,2- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-3946	$\beta$ -Alanine ( <sup>13</sup> C <sub>3</sub> , 98%; <sup>15</sup> N, 96-99%)	0.25 g
CNLM-9007-CA	L-Argininosuccinic acid, barium salt·2H <sub>2</sub> O (arginine- <sup>13</sup> C <sub>6</sub> , 99%; <sup>15</sup> N <sub>4</sub> , 99%) CP 90%	0.1 mg, 0.5 mg
ULM-9008-CA	L-Argininosuccinic acid, barium salt·3H <sub>2</sub> O (unlabeled) CP 90%	0.1 mg
ULM-10431	DL-Carnitine·HCl, O-acetyl (unlabeled)	Please inquire
ULM-10432	DL-Carnitine·HCl, O-octanoyl (unlabeled)	Please inquire
ULM-10433	DL-Carnitine·HCl, O-palmitoyl (unlabeled) CP 97%	Please inquire
DLM-9067	L-Carnitine·HCl, O-decanoyl ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	0.1 mg
DLM-8162	L-Carnitine·HCl, O-dodecanoyl ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	0.1 mg
DLM-9276	L-Carnitine·HCl, O-hexanoyl ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	0.1 mg
ULM-7198	L-Carnitine·HCl, O-hexanoyl (unlabeled)	Please inquire
DLM-6718	L-Carnitine·HCl, O-hexacosanoyl ( <i>N</i> -methyl-D <sub>3</sub> , 98%) CP 95%	Please inquire
CLM-7933	Creatine (guanidino- <sup>13</sup> C, 99%)	0.1 g
DLM-1302	Creatine ( <i>methyl</i> -D <sub>3</sub> , 98%) CP 97%	0.25 g
DLM-3653	Creatinine ( <i>N</i> -methyl-D <sub>3</sub> , 98%)	0.1 g
CLM-4579	2'-Deoxyadenosine·H <sub>2</sub> O (ribose- <sup>13</sup> C <sub>5</sub> , 99%)	Please inquire
CLM-7686	2'-Deoxyguanosine·H <sub>2</sub> O (ribose-1- <sup>13</sup> C, 98%)	Please inquire
DLM-7687	2'-Deoxyguanosine·H <sub>2</sub> O (ribose-5,5-D <sub>2</sub> , 98%)	Please inquire
NLM-3899-CA	2'-Deoxyguanosine·H <sub>2</sub> O ( <sup>15</sup> N <sub>5</sub> , 98%) CP 95%	5 mg, 10 mg, 25 mg
CNLM-3900-CA	2'-Deoxyguanosine·H <sub>2</sub> O ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%)	5 mg, 10 mg, 25 mg
DLM-6013	Ethylmalonic acid ( <i>methyl</i> -D <sub>3</sub> , 98%)	0.1 g
CLM-744	D-Galactose (1- <sup>13</sup> C, 99%)	0.25 g, 0.5 g, 1 g
CLM-4217	D-Galactose (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire
CLM-1570	D-Galactose (U- <sup>13</sup> C <sub>6</sub> , 99%)	0.1 g
DLM-9308	D-Galactose (6,6'-D <sub>2</sub> , 97%)	Please inquire
CLM-1822	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-1826	L-Glutamine (2,3,4,4-D <sub>5</sub> , 97%)	0.1 g
CNLM-1275	L-Glutamine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 99%)	0.1 g, 0.25 g, 0.5 g

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
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## MS/MS Standards (continued)

Catalog No.	Description	Unit Size
CLM-1017	Glycine (1,2- <sup>13</sup> C <sub>2</sub> , 97- 99%)	0.5 g, 1 g, 5g
DLM-280	Glycine (D <sub>5</sub> , 98%)	5 g
NLM-202	Glycine ( <sup>15</sup> N, 98%)	1 g, 5 g
CNLM-8111	<i>N</i> -(3-Methylcrotonyl)glycine (glycine- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 98%)	Please inquire
DLM-9715	<i>N</i> -(3-Phenylpropionyl)glycine (2,2,-D <sub>2</sub> , 98%)	Please inquire
DLM-9998	Guanidinoacetic acid (2,2-D <sub>2</sub> , 97%)	Please inquire
CLM-7688	Guanosine·H <sub>2</sub> O (ribose-1- <sup>13</sup> C, 98%)	0.05 g, 0.1 g
DLM-7689	Guanosine·H <sub>2</sub> O, (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g
CNLM-3808-CA	Guanosine·H <sub>2</sub> O ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%)	5 mg, 10 mg, 25 mg
CNLM-8448	<i>N</i> -Hexanoylglycine ( <sup>13</sup> C <sub>2</sub> , 97-99%; <sup>15</sup> N, 97-99%) CP 95%	Please inquire
NLM-4649	L-Histidine (ring- $\epsilon$ - <sup>15</sup> N, 98%) (<5% D)	Please inquire
NLM-4457	L-Histidine (ring- $\pi$ - <sup>15</sup> N, 98%) (<5% D)	Please inquire
NLM-9585	L-Histidine (ring- <sup>15</sup> N <sub>2</sub> , 98%)	Please inquire
DLM-3619	DL-Homocystine (3,3,3',3',4,4,4',4'-D <sub>8</sub> , 98%)	0.1 g, 0.5 g, 1 g
NLM-4264	Inosine ( <sup>15</sup> N <sub>4</sub> , 95%)	0.01 g, 0.05 g
CLM-8742	L-allo-Isoleucine ( <sup>13</sup> C <sub>6</sub> , 97-99%)	Please inquire
DLM-1505	L-allo-Isoleucine (D <sub>10</sub> , 98%)	0.1 g
CNLM-9291	<i>N</i> -Isovalerylglycine (glycine- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 99%)	Please inquire
CLM-2247-H	L-Lysine·2HCl ( <sup>13</sup> C <sub>6</sub> , 99%)	0.05 g, 0.1 g, 0.25 g, 0.5g, 1 g
DLM-2640	L-Lysine·2HCl (4,4,5,5-D <sub>4</sub> , 96-98%)	0.1g, 0.25g, 0.5g
NLM-143	L-Lysine·2HCl ( $\alpha$ - <sup>15</sup> N, 95-99%)	0.25 g, 1 g
DLM-10520	Lysophosphatidylcholine 20:0 (eicosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	1 mg, 5 mg
ULM-10521	Lysophosphatidylcholine 20:0 (unlabeled)	5 mg, 10 mg
CLM-10499	Lysophosphatidylcholine 22:0 (docosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg, 5 mg
DLM-10500	Lysophosphatidylcholine 22:0 (docosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	1 mg, 5 mg
ULM-10498	Lysophosphatidylcholine 22:0 (unlabeled)	5 mg, 10 mg
CLM-10496	Lysophosphatidylcholine 24:0 (tetracosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg, 5 mg
DLM-10497	Lysophosphatidylcholine 24:0 (tetracosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	1 mg, 5 mg
ULM-10495	Lysophosphatidylcholine 24:0 (unlabeled)	5 mg, 10 mg
CLM-9792	Lysophosphatidylcholine 26:0 (hexacosanoyl-1,2,3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg, 5 mg
DLM-10501	Lysophosphatidylcholine 26:0 (hexacosanoyl-12,12,13,13-D <sub>4</sub> , 98%)	1 mg, 5 mg
ULM-9791	Lysophosphatidylcholine 26:0 (unlabeled)	5 mg, 10 mg
CLM-10350	2-Methylbutyric acid (methyl- <sup>13</sup> C, 99%)	Please inquire
DLM-2312	DL-2-Methylcitric acid (methyl-D <sub>3</sub> , 98%) CP 90%	5 mg, 10 mg
CLM-9426	Methylmalonic acid ( <sup>13</sup> C <sub>4</sub> , 99%)	0.1 g
DLM-387	Methylmalonic acid (methyl-D <sub>3</sub> , 98%)	0.25 mg
ULM-10578	Methylmalonic acid, disodium salt (unlabeled) CP 95%	Please inquire
NLM-1048	Orotic acid·H <sub>2</sub> O (1,3- <sup>15</sup> N <sub>2</sub> , 98%)	0.25 mg
CLM-10604	Phenylpyruvic acid, sodium salt ( <sup>13</sup> C <sub>9</sub> , 99%)	Please inquire
CLM-7944	3-(5-Methyl-1H-pyrazol-3-yl)propanoic acid (methyl- <sup>13</sup> C, pyrazolyl- <sup>13</sup> C <sub>3</sub> , 3- <sup>13</sup> C, 99%)	0.1 mg
CNLM-9292	<i>N</i> -Propionylglycine (glycine- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 99%)	Please inquire
CLM-510	L-Proline (1- <sup>13</sup> C, 99%)	0.25 g
CLM-2260-H	L-Proline ( <sup>13</sup> C <sub>5</sub> , 99%)	0.1 g, 0.25 g, 0.5 g
DLM-487	L-Proline (D <sub>7</sub> , 97-98%)	0.1 g, 0.25 g
NLM-835	L-Proline ( <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CNLM-7822	L-Proline (1- <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	Please inquire
CNLM-436-H	L-Proline ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.1 g, 0.25 g, 0.5 g
DNLM-7562	L-Proline (D <sub>7</sub> , 98%; <sup>15</sup> N, 98%)	0.25 g
CDNLM-6812	L-Proline ( <sup>13</sup> C <sub>5</sub> , 97-99%; D <sub>7</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.25 g
ULM-8333	L-Proline (unlabeled)	0.05 g, 0.1 g

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Catalog No.	Description	Unit Size
CLM-1036	L-Ornithine-HCL (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
CLM-4724	L-Ornithine-HCL ( <sup>13</sup> C <sub>5</sub> , 98%)	0.1 g
DLM-2969	L-Ornithine-HCL (3,3,4,4,5,5-D <sub>6</sub> , 98%)	0.1 g, 0.25 g
NLM-3610	L-Ornithine-HCL ( <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g
NLM-1072	Sarcosine ( <sup>15</sup> N, 98%)	Please inquire
CNLM-8183	Suberylglycine (glycine- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 98%) CP 95%	Please inquire
DLM-10502	Tetracosanoic acid (12,12,13,13-D <sub>4</sub> , 98%)	0.1 g, 0.25 g
CLM-2261	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%)	0.1 g, 0.25 g, 0.5 g
DLM-1693	L-Threonine (D <sub>5</sub> , 98%)	0.1 g
NLM-742	L-Threonine ( <sup>15</sup> N, 98%)	0.25 g, 0.5 g
CNLM-587	L-Threonine ( <sup>13</sup> C <sub>4</sub> , 97-99%; <sup>15</sup> N, 97-99%)	0.1 g, 0.25 g, 0.5 g
CLM-6725	L-Thyroxine (tyrosine-ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 90%	0.1 mg
CLM-8931	L-Thyroxine (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 97%	0.1 mg
ULM-8184	L-Thyroxine (unlabeled)	0.2 mg
DLM-10758	Trisodium 2-methylcitrate, racemic mixture of diastereomers (methyl-D <sub>3</sub> , 98%) CP 90%	5 mg, 10 mg
ULM-10510	Trisodium 2-methylcitrate, racemic mixture of diastereomers (unlabeled) CP 90%	Please inquire
CLM-716	L-Tryptophan (indole-3- <sup>13</sup> C, 95-99%)	0.25 g
CLM-4290-H	L-Tryptophan ( <sup>13</sup> C <sub>11</sub> , 99%)	0.1 g
DLM-6903	L-Tryptophan (D <sub>8</sub> , 97-98%)	0.25 g
NLM-800	L-Tryptophan ( <sup>15</sup> N <sub>2</sub> , 98%)	0.25 g, 0.5 g

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## Neurotransmitters

Catalog No.	Description	Unit Size
DLM-11029	N-Acetyl-5-hydroxytryptamine (acetyl-D <sub>3</sub> , 98%)	Please inquire
CLM-8666	4-Aminobutyric acid ( <sup>13</sup> C <sub>4</sub> , 97-99%)	0.05 g, 0.1 g
CLM-548	Choline chloride (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	0.1 g
DLM-549	Choline chloride (trimethyl-D <sub>9</sub> , 98%)	1 g
DLM-549-MPT	Choline chloride (trimethyl-D <sub>9</sub> , 98%)	Please inquire
CLM-3368	Dopamine-HCl (2-(3,4-dihydroxyphenyl)- ethylamine-HCl) (1- <sup>13</sup> C, 99%)	0.01 g, 0.05 g
DLM-2833	Dopamine-HCl (2-(3,4-dihydroxyphenyl)- ethylamine-HCl) (1,1-D <sub>2</sub> , 93%) CP 96-98%	Please inquire
DLM-2834	Dopamine-HCl (2-(3,4-dihydroxyphenyl)- ethylamine-HCl) (2,2-D <sub>2</sub> , 97-98%)	0.01 g, 0.1 g
DLM-2290	Dopamine-HCl (2-(3,4-dihydroxyphenyl)- ethylamine-HCl) (ring-D <sub>3</sub> , 95%; 2,2-D <sub>2</sub> , 95%)	0.05 g, 0.1 g
CNLM-3445	Dopamine-HCl (2-(3,4-dihydroxyphenyl)- ethylamine-HCl) (1- <sup>13</sup> C, 99%, <sup>15</sup> N, 99%)	0.01 g
CLM-674	L-Glutamic acid (1- <sup>13</sup> C, 99%)	1 g
CLM-1800-H	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 99%)	0.25 g, 0.5 g, 1 g
DLM-556	L-Glutamic acid (2,3,3,4,4-D <sub>5</sub> , 98%)	0.05 g, 0.1 g
CNLM-554-H	L-Glutamic acid ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 99%)	0.25 g, 0.5 g, 1 g
DLM-2911	Histamine-HCl (α,β,β,β-D <sub>4</sub> , 98%)	0.01 g
CLM-9936-C	5-Hydroxyindole-3-acetic acid (3α,4,5,6,7,7α- <sup>13</sup> C <sub>6</sub> , 98%)	1 mL
DLM-2950	N-τ-Methylhistamine·2HCl (N-methyl-D <sub>3</sub> , 98%)	0.1 g
DLM-11030	Serotonin-HCl (α,α,β,β-D <sub>4</sub> , 98%) CP 96%	Please inquire
DLM-8075	Tyramine-HCl (1,1,2,2-D <sub>4</sub> , 98%)	Please inquire

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## Nucleic Acids

Catalog No.	Description	Unit Size
CLM-1654	Adenine (8- <sup>13</sup> C, 95%)	0.5 g
NLM-6924	Adenine·HCl·½ H <sub>2</sub> O ( <sup>15</sup> N <sub>5</sub> , 98%)	0.01 g
CLM-3698	Adenosine (ribose-2- <sup>13</sup> C, 99%)	0.1 g
CLM-7674	Adenosine (3'- <sup>13</sup> C, 98%)	0.05 g, 0.1 g
CLM-3678	Adenosine (ribose- <sup>13</sup> C <sub>5</sub> , 98%) CP 97%	0.05 g, 0.1 g
DLM-7676	Adenosine (ribose-1-D, 98%)	0.05 g, 0.1 g
DLM-7677	Adenosine (ribose-2-D, 97%)	0.05 g, 0.1 g
DLM-7678	Adenosine (ribose-5,5-D <sub>2</sub> , 98%)	0.1 g, 0.25 g
NLM-9750-SL	Adenosine (U- <sup>15</sup> N <sub>5</sub> , 96-98%)	10 mg, 50 mg
CNLM-3806-CA	Adenosine ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%)	10 mg, 50 mg
CLM-3605	Adenosine·H <sub>2</sub> O (ribose-1- <sup>13</sup> C, 99%) CP 95%	0.1 g, 0.25 g
NLM-3792-SL	Adenosine 5'-monophosphate, lithium salt (U- <sup>15</sup> N <sub>5</sub> , 96-98%)	10 mg, 50 mg
CNLM-3802-SL	Adenosine 5'-monophosphate (U- <sup>13</sup> C <sub>10</sub> , 98%; U- <sup>15</sup> N <sub>5</sub> , 96-98%)	10 mg, 50 mg
DLM-7514-CA	Adenosine 5'-triphosphate (ATP), ammonium salt (D, 97%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
DLM-8815-CA	Adenosine 5'-triphosphate (ATP), ammonium salt (2-D, 97%) (in solution) CP 90%	100 µmol
DLM-8922-CA	Adenosine 5'-triphosphate (ATP), ammonium salt (ribose-3',4',5',5'-D <sub>4</sub> , 98%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
NLM-3987-CA	Adenosine 5'-triphosphate (ATP), ammonium salt ( <sup>15</sup> N <sub>5</sub> , 98-99%) (in solution) CP 90%	20 µmol, 100 µmol
CNLM-4265-CA	Adenosine 5'-triphosphate (ATP), ammonium salt ( <sup>13</sup> C <sub>10</sub> , 98-99%; <sup>15</sup> N <sub>5</sub> , 98-99%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
CLM-3611	Cytidine (ribose-1- <sup>13</sup> C, 99%)	0.25 g
CLM-3699	Cytidine (ribose-2- <sup>13</sup> C, 99%)	0.1 g, 0.25 g
CLM-3679	Cytidine (ribose- <sup>13</sup> C <sub>5</sub> , 98%)	0.05 g, 0.1 g
DLM-7681	Cytidine (ribose-5,5-D <sub>2</sub> , 98%)	0.1 g, 0.25 g
NLM-3797	Cytidine ( <sup>15</sup> N <sub>3</sub> , 96-98%)	50 mg
CNLM-3807	Cytidine ( <sup>13</sup> C <sub>9</sub> , 98%; <sup>15</sup> N <sub>3</sub> , 96-98%)	50 mg
DLM-9101-CA	Cytidine·H <sub>2</sub> O (5,6-D <sub>2</sub> , 98%) (as dry powder) CP 95%	Please inquire
NLM-3793	Cytidine 5'-monophosphate ( <sup>15</sup> N <sub>3</sub> , 96-98%)	10 mg, 50 mg
NLM-3793-SL	Cytidine 5'-monophosphate, lithium salt (U- <sup>15</sup> N <sub>3</sub> , 96-98%) CP 90%	10 mg, 50 mg
CNLM-3803-SL	Cytidine 5'-monophosphate, lithium salt (U- <sup>13</sup> C <sub>9</sub> , 98%; U- <sup>15</sup> N <sub>3</sub> , 96-98%) (in solution) CP 90%	10 mg, 50 mg
DLM-9267-CA	Cytidine 5'-triphosphate (CTP), ammonium salt (5,6-D <sub>2</sub> , 97%) (in solution) CP 90%	100 µmol
DLM-8924-CA	Cytidine 5'-triphosphate (CTP), ammonium salt (5-D, ribose-3',4',5',5'-D <sub>4</sub> , 97%) (in solution)	20 µmol, 50 µmol, 100 µmol
DLM-8594-CA	Cytidine 5'-triphosphate (CTP), ammonium salt (cytosine-5-D, 6-H; ribose-1,2,3,4,5,5-D <sub>6</sub> , 96-97%)	100 µmol
DLM-7515-CA	Cytidine 5'-triphosphate (CTP), ammonium salt (D <sub>8</sub> , 97%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
NLM-4266-CA	Cytidine 5'-triphosphate (CTP), ammonium salt ( <sup>15</sup> N <sub>3</sub> , 96%) (in solution) CP 90%	20 µmol, 100 µmol
CNLM-4267-CA	Cytidine 5'-triphosphate (CTP), ammonium salt ( <sup>13</sup> C <sub>9</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 96-98%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
CNLM-4424	Cytosine (2- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	0.05 g
CLM-3700	2'-Deoxyadenosine·H <sub>2</sub> O (deoxyribose-1- <sup>13</sup> C, 99%)	0.1 g
CLM-3701	2'-Deoxyadenosine·H <sub>2</sub> O (deoxyribose-2- <sup>13</sup> C, 99%)	0.1 g
CLM-7682	2'-Deoxyadenosine·H <sub>2</sub> O (ribose-5- <sup>13</sup> C, 98%)	0.05 g, 0.1 g
CLM-4579	2'-Deoxyadenosine·H <sub>2</sub> O (ribose- <sup>13</sup> C <sub>5</sub> , 99%)	Please inquire
DLM-7683	2'-Deoxyadenosine·H <sub>2</sub> O (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g
NLM-3895	2'-Deoxyadenosine·H <sub>2</sub> O ( <sup>15</sup> N <sub>5</sub> , 96-98%)	25 mg
CNLM-3896-CA	2'-Deoxyadenosine monohydrate ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%)	5 mg, 10 mg, 25 mg
NLM-3919-SL	2'-Deoxyadenosine 5'-monophosphate (U- <sup>15</sup> N <sub>5</sub> , 98%)	10 mg, 50 mg
CNLM-3918-SL	2'-Deoxyadenosine 5'-monophosphate, lithium salt (U- <sup>13</sup> C <sub>10</sub> , 98%; U- <sup>15</sup> N <sub>5</sub> , 98%)	10 mg, 50 mg
NLM-6829	2'-Deoxyadenosine phosphoramidite ( <sup>15</sup> N <sub>5</sub> , 98%) CP 95%	10 mg, 25 mg, 50 mg
CNLM-6828	2'-Deoxyadenosine phosphoramidite ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 98%) CP 95%	10 mg, 25 mg, 50 mg
CNLM-6219-CA	2'-Deoxyadenosine 5'-triphosphate, ammonium salt ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%) (in solution) CP 90%	20 µmol, 100 µmol
DLM-7507-SL	2'-Deoxyadenosine 5'-triphosphate, lithium salt (U-D, 97%) (in solution) CP 90%	10 mg, 50 mg
NLM-6215-SL	2'-Deoxyadenosine 5'-triphosphate, lithium salt (U- <sup>15</sup> N <sub>5</sub> , 98%) (in solution) CP 90%	10 mg, 50 mg
NLM-3897	2'-Deoxycytidine ( <sup>15</sup> N <sub>3</sub> , 96-98%)	25 mg
CLM-7684	2'-Deoxycytidine·H <sub>2</sub> O (ribose-1- <sup>13</sup> C, 98%)	0.05 g, 0.1 g
CLM-3702	2'-Deoxycytidine·H <sub>2</sub> O (deoxyribose-2- <sup>13</sup> C, 99%)	0.05 g, 0.1 g
DLM-7685	2'-Deoxycytidine·H <sub>2</sub> O (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g

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Catalog No.	Description	Unit Size
NLM-3921	2'-Deoxycytidine 5'-monophosphate ( <sup>15</sup> N <sub>3</sub> , 96%)	10 mg
NLM-6827	2'-Deoxycytidine phosphoramidite ( <sup>15</sup> N <sub>3</sub> , 97-98%) CP 95%	10 mg, 25 mg, 50 mg
CNLM-6830	2'-Deoxycytidine phosphoramidite ( <sup>13</sup> C <sub>9</sub> , 98%; <sup>15</sup> N <sub>3</sub> , 98%) CP 95%	10 mg, 25 mg, 50 mg
DLM-7508-SL	2'-Deoxycytidine 5'-triphosphate, dilithium salt (U-D, 97%) (in solution) CP 90%	10 mg, 50 mg
NLM-6216-SL	2'-Deoxycytidine 5'-triphosphate, lithium salt (U- <sup>15</sup> N <sub>3</sub> , 98%) (in solution) CP 90%	10 mg, 50 mg
CNLM-6220-SL	2'-Deoxycytidine 5'-triphosphate, lithium salt (U- <sup>13</sup> C <sub>9</sub> , 98%; U- <sup>15</sup> N <sub>3</sub> , 98%) (in solution) CP 90%	10 mg, 50 mg
CLM-7686	2'-Deoxyguanosine-H <sub>2</sub> O (ribose-1- <sup>13</sup> C, 98%)	0.05 g, 0.1 g
DLM-7687	2'-Deoxyguanosine-H <sub>2</sub> O (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g
CNLM-3900-CA	2'-Deoxyguanosine-H <sub>2</sub> O ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%)	5 mg, 10 mg, 25 mg
NLM-6826	2'-Deoxyguanosine phosphoramidite ( <sup>15</sup> N <sub>5</sub> , 98%) CP 95%	10 mg, 25 mg, 50 mg
CNLM-6825	2'-Deoxyguanosine phosphoramidite ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 98%) CP 95%	10 mg, 25 mg, 50 mg
NLM-6835-SL	2'-Deoxyguanosine 5'-monophosphate (U- <sup>15</sup> N <sub>5</sub> , 98%) (in solution) CP 90%	10 mg
CNLM-6836-SL	2'-Deoxyguanosine 5'-monophosphate (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 98%)	10 mg, 50 mg
NLM-6217-CA	2'-Deoxyguanosine 5'-triphosphate, ammonium salt ( <sup>15</sup> N <sub>5</sub> , 98-99%) (in solution) CP 90%	100 μmol
CNLM-6221-CA	2'-Deoxyguanosine 5'-triphosphate, ammonium salt ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%) CP 90%	100 μmol
DLM-7509-SL	2'-Deoxyguanosine 5'-triphosphate, lithium salt (U-D, 97%) (in solution) CP 90%	10 mg, 50 mg
CNLM-7871-SL	Set of 4: 2'-Deoxyribonucleoside 5'-monophosphates (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 98%) (in solution) CP 90%	4 × 10 mg
NLM-7512-SL	Set of 4: 2'-Deoxyribonucleoside 5'-triphosphates (U- <sup>15</sup> N, 98%) (lithium salt/in solution) CP 90%	4 × 10 mg, 4 × 50 mg
CNLM-7513-SL	Set of 4: 2'-Deoxyribonucleoside 5'-triphosphates (U- <sup>13</sup> C, 98%; U- <sup>15</sup> N, 98%) (in solution) CP 90%	4 × 10 mg, 4 × 50 mg
DLM-7511-SL	Set of 4: 2'-Deoxyribonucleoside 5'-triphosphates, lithium salt (U-D, 98%) (in solution) CP 90%	4 × 10 mg, 4 × 50 mg
CNLM-8771-CA	2'-Deoxyuridine·ammonium salt ( <sup>13</sup> C <sub>9</sub> , 98-99%; <sup>15</sup> N <sub>2</sub> , 98-99%) (in solution) CP 90%	25 μmol, 50 μmol, 100 μmol
DLM-4391	5,6-Dihydrothymine (5,6,6-D <sub>3</sub> , methyl-D <sub>3</sub> , 95%)	50 mg
CNLM-4510	5,6-Dihydrouracil ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N, 98%)	25 mg
CNLM-3752	Fapyadenine (formyl- <sup>13</sup> C, 98%; diamino- <sup>15</sup> N <sub>2</sub> , 98%)	25 mg
NLM-798	5-Fluorouracil (1,3- <sup>15</sup> N <sub>2</sub> , 99%)	Please inquire
CNLM-3916	5-Fluorouracil ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%)	10 mg
DLM-1846	Guanidine·DCl (D <sub>6</sub> , 98%)	1 g
CLM-1019	Guanine (8- <sup>13</sup> C, 98%)	0.5 g
NLM-6925	Guanine ( <sup>15</sup> N <sub>5</sub> , 98%)	10 mg
CNLM-3990	Guanine (8- <sup>13</sup> C, 98%; 7,9- <sup>15</sup> N <sub>2</sub> , 98%)	25 mg
CLM-7688	Guanosine·H <sub>2</sub> O (ribose-1- <sup>13</sup> C, 98%)	0.05 g, 0.1 g
DLM-7689	Guanosine·H <sub>2</sub> O (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g
CNLM-3808-CA	Guanosine·H <sub>2</sub> O ( <sup>13</sup> C <sub>10</sub> , 98%; <sup>15</sup> N <sub>5</sub> , 96-98%)	5 mg, 10 mg, 25 mg
NLM-3798	Guanosine·2H <sub>2</sub> O ( <sup>15</sup> N <sub>5</sub> , 96-98%)	50 mg
CNLM-3804-SL	Guanosine 5'-monophosphate, lithium salt (U- <sup>13</sup> C <sub>10</sub> , 98%; U- <sup>15</sup> N <sub>5</sub> , 98%) (in solution) CP 90%	10 mg, 50 mg
NLM-3794-SL	Guanosine 5'-monophosphate, lyophilized powder (U- <sup>15</sup> N <sub>5</sub> , 98%) CP 90%	10 mg, 50 mg
DLM-7516-CA	Guanosine 5'-triphosphate (GTP), ammonium salt (D, 97%) (in solution) CP 90%	20 μmol, 50 μmol, 100 μmol
DLM-8923-CA	Guanosine 5'-triphosphate (GTP), ammonium salt (ribose-3',4',5',5'-D <sub>4</sub> , 98%) (in solution) CP 90%	20 μmol, 50 μmol, 100 μmol
NLM-4268-CA	Guanosine 5'-triphosphate (GTP), ammonium salt ( <sup>15</sup> N <sub>5</sub> , 98-99%) (in solution) CP 90%	20 μmol, 100 μmol
CNLM-4269-CA	Guanosine 5'-triphosphate (GTP), ammonium salt ( <sup>13</sup> C <sub>10</sub> , 99%; <sup>15</sup> N <sub>5</sub> , 98%) (in solution) CP 90%	20 μmol, 50 μmol, 100 μmol
NLM-6715	8-Hydroxy-2'-deoxyguanosine ( <sup>15</sup> N <sub>5</sub> , 98%) CP 95%	0.1 mg, 1 mg
CNLM-4392	5-Hydroxycytosine (2- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	25 mg, 50 mg
CNLM-3859	8-Hydroxyguanine·½H <sub>2</sub> O (8- <sup>13</sup> C, 98%; 7,9- <sup>15</sup> N <sub>2</sub> , 98%)	25 mg
DLM-10484	5-Hydroxymethyl-2'-deoxycytidine (hydroxymethyl-D <sub>2</sub> , 6-D, 98%)	Please inquire
CNLM-4393	5-Hydroxyuracil ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%)	5 mg, 10 mg
CLM-8042	Hypoxanthine ( <sup>13</sup> C <sub>5</sub> , 99%)	0.1 mg
DLM-8658	Hypoxanthine (2,8-D <sub>2</sub> , 98%)	0.1 g
DLM-2923	Hypoxanthine (2,8,9-D <sub>3</sub> , OD, 98%)	0.1 g
NLM-8500	Hypoxanthine ( <sup>15</sup> N <sub>4</sub> , 98%)	Please inquire
CNLM-7894	Hypoxanthine ( <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N <sub>4</sub> , 98%)	Please inquire
NLM-4264	Inosine ( <sup>15</sup> N <sub>4</sub> , 95%)	0.01 g, 0.05 g

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**Nucleic Acids** (continued)

Catalog No.	Description	Unit Size
NLM-8712-CA	Inosine 5'-monophosphate, ammonium salt ( $^{15}\text{N}_4$ , 98-99%) (in solution) CP 90%	100 $\mu\text{mol}$
DLM-7471	3-Methyladenine (methyl-D <sub>3</sub> , 98%)	50 mg
DLM-7472	7-Methylguanine (methyl-D <sub>3</sub> , 98%)	0.01 g
DLM-7473	6-O-Methylguanine (methyl-D <sub>3</sub> , 98%)	0.01 g
CLM-10671	Nicotinamide adenine dinucleotide (NAD $^+$ ), NH <sub>4</sub> salt (ribose- $^{13}\text{C}_5$ , 98%) CP 96%	1 mg
CLM-9427-CA	1-(5'-Phosphoribosyl)-5-amino-4-imidazole-carboxamide salt (2NH <sub>4</sub> $^+$ ) (ribose- $^{13}\text{C}_5$ , 99%) CP 90%	100 $\mu\text{mol}$
NLM-1048	Orotic acid·H <sub>2</sub> O (1,3- $^{15}\text{N}_2$ , 98%)	0.25 g
DLM-7518-CA	Set of 4: Ribonucleoside 5'-triphosphates, ammonium salt (U-D, 98%) (in solution) CP 90%	4 × 20 $\mu\text{mol}$ , 4 × 50 $\mu\text{mol}$ , 4 × 100 $\mu\text{mol}$
NLM-7519-CA	Set of 4: 2'-Ribonucleoside 5'-triphosphates, ammonium salt (U- $^{15}\text{N}$ , 98%) (in solution) CP 90%	4 × 100 $\mu\text{mol}$
CNLM-7503-CA	Set of 4: 2'-Ribonucleoside 5'-triphosphates, ammonium salt (U- $^{13}\text{C}$ , U- $^{15}\text{N}$ ; 98-99%) (in solution) CP 90%	4 × 20 $\mu\text{mol}$ , 4 × 50 $\mu\text{mol}$ , 4 × 100 $\mu\text{mol}$
CLM-3629	Ribothymidine (ribose-1- $^{13}\text{C}$ , 99%)	0.1 g, 0.25 g
NLM-7565-SL	RNA standard ( $^{15}\text{N}$ , 98%)	1 mg
CLM-6622	Taurine (1,2- $^{13}\text{C}_2$ , 98%)	0.25 g, 0.5 g
DLM-8057	Taurine (D <sub>4</sub> , 98%) CP 95%	0.1 g, 0.25 g
NLM-4472	Taurine ( $^{15}\text{N}$ , 98%)	Please inquire
CLM-3647	Thymidine (methyl- $^{13}\text{C}$ , 98%)	0.25 g, 0.5 g
CLM-4289	Thymidine (deoxyribose-1- $^{13}\text{C}$ , 99%)	0.1 g, 0.25 g
CLM-3703	Thymidine (deoxyribose-2- $^{13}\text{C}$ , 99%)	0.05 g, 0.1 g
CLM-7692	Thymidine (deoxyribose-3- $^{13}\text{C}$ , 99%)	0.05 g, 0.1 g
DLM-7691	Thymidine (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g
DLM-3327	Thymidine (methyl-D <sub>3</sub> , ring-6-D, 97%) CP 95%	Please inquire
NLM-3901	Thymidine ( $^{15}\text{N}_2$ , 96-98%)	25 mg
CNLM-3902	Thymidine ( $^{13}\text{C}_{10}$ , 98%; $^{15}\text{N}_2$ , 96-98%)	25 mg
NLM-6823	Thymidine phosphoramidite ( $^{15}\text{N}_2$ , 96-98%) CP 95%	10 mg, 25 mg, 50 mg
CNLM-6824	Thymidine phosphoramidite ( $^{13}\text{C}_{10}$ , 98%; $^{15}\text{N}_2$ , 98%) CP 95%	10 mg, 25 mg, 50 mg
NLM-3925	Thymidine 5'-monophosphate ( $^{15}\text{N}_2$ , 98%)	10 mg
CNLM-3924-SL	Thymidine 5'-monophosphate (U- $^{13}\text{C}_{10}$ , 98%; U- $^{15}\text{N}_2$ , 98%)	10 mg, 50 mg
DLM-7510-SL	Thymidine 5'-triphosphate, lithium salt (U-D, 97%) (in solution) CP 90%	10 mg, 50 mg
NLM-6218-SL	Thymidine 5'-triphosphate, lithium salt (U- $^{15}\text{N}_2$ , 98%) (in solution) CP 90%	10 mg, 50 mg
CNLM-6222-SL	Thymidine 5'-triphosphate, lithium salt (U- $^{13}\text{C}_{10}$ , 98%; U- $^{15}\text{N}_2$ , 98%) (in solution) CP 90%	10 mg, 50 mg
DLM-1089	Thymine ( $\alpha,\alpha,\alpha,6\text{-D}_4$ , 98%)	1 g
NLM-3995	Thymine (1,3- $^{15}\text{N}_2$ , 98%)	0.1 g
CNLM-6945	Thymine ( $^{13}\text{C}_5$ , 98%; $^{15}\text{N}_2$ , 98%)	Please inquire
NLM-637	Uracil (1,3- $^{15}\text{N}_2$ , 98%)	0.25 g, 0.5 g
NLM-1697	Uric acid (1,3- $^{15}\text{N}_2$ , 98%)	0.1 g, 0.5 g
CNLM-10617	Uric acid (2- $^{13}\text{C}$ , 98%; 1,3,7- $^{15}\text{N}_3$ , 98%) CP 95%	1 mg
CLM-3276	Uracil (2- $^{13}\text{C}$ , 99%)	0.1 g
CLM-692	Uracil (4,5- $^{13}\text{C}_2$ , 99%)	0.25 g
DLM-8633	Uracil (5-D, 98%)	0.1 g, 0.25 g
DLM-8502	Uracil (5,6-D <sub>2</sub> , 98%)	0.1 g, 0.25 g
CNLM-3917	Uracil ( $^{13}\text{C}_4$ , 99%; $^{15}\text{N}_2$ , 98%)	0.1 g
CLM-3630	Uridine (ribose-1- $^{13}\text{C}$ , 99%)	0.05 g, 0.1 g, 0.25 g
DLM-7693	Uridine (ribose-5,5-D <sub>2</sub> , 98%)	0.05 g, 0.1 g
NLM-812	Uridine ( $^{15}\text{N}_2$ , 98%)	25 mg

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Catalog No.	Description	Unit Size
CNLM-3809	Uridine ( $^{13}\text{C}_9$ , 98%; $^{15}\text{N}_2$ , 96-98%)	Please inquire
NLM-3795	Uridine 5'-monophosphate ( $^{15}\text{N}_2$ , 96-98%)	10 mg
NLM-3795-SL	Uridine 5'-monophosphate, lithium salt (U- $^{15}\text{N}_2$ , 96-98%)	10 mg
CNLM-3805-SL	Uridine 5'-monophosphate, lithium salt (U- $^{13}\text{C}_9$ , 98%; U- $^{15}\text{N}_2$ , 96-98%) (in solution) CP 90%	10 mg, 50 mg
DLM-9100-CA	Uridine 5'-triphosphate (UTP), ammonium salt (5,6-D <sub>2</sub> , 98%) (in solution) CP 90%	100 µmol
DLM-8925-CA	Uridine 5'-triphosphate (UTP), ammonium salt (5-D, ribose-3',4',5',5'-D <sub>4</sub> , 98%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
DLM-8637-CA	Uridine 5'-triphosphate (UTP), ammonium salt (uracil-5-D, 6-H; ribose-1,2,3,4,5,5-D <sub>6</sub> , 96-97%)	100 µmol
DLM-7517-CA	Uridine 5'-triphosphate (UTP), ammonium salt (D <sub>8</sub> , 97%) CP 90%	20 µmol, 50 µmol, 100 µmol
NLM-4270-CA	Uridine 5'-triphosphate (UTP), ammonium salt ( $^{15}\text{N}_2$ , 98-99%) (in solution) CP 90%	20 µmol, 100 µmol
CNLM-4271-CA	Uridine 5'-triphosphate (UTP), ammonium salt ( $^{13}\text{C}_9$ , 99%; $^{15}\text{N}_2$ , 98%) (in solution) CP 90%	20 µmol, 50 µmol, 100 µmol
NLM-1698	Xanthine (1,3- $^{15}\text{N}_2$ , 98%) CP 90%	0.1 g
CLM-8700-CA	Xanthosine-5'-monophosphate, ammonium salt ( $^{13}\text{C}_{10}$ , 98%) (in solution) CP 90%	100 µmol

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## Organic Acids, Their Derivatives, and Conjugate Salts

Catalog No.	Description	Concentration	Unit Size
CLM-317	Acetic acid (1- <sup>13</sup> C, 99%)	neat	1 g, 5 g
CLM-318	Acetic acid (2- <sup>13</sup> C, 99%)	neat	1 g
CLM-113	Acetic acid (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.5 g, 1 g
CLM-9878	trans-Aconitic acid (2,4,4'- <sup>13</sup> C <sub>3</sub> , 99%) CP 95%	neat	Please inquire
CLM-11066	cis-Aconitic acid, tripotassium salt ( <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	Please inquire
CLM-7337	Citric acid (1,5- <sup>13</sup> C <sub>2</sub> , 98%)	neat	Please inquire
CLM-148	Citric acid (2,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	Please inquire
CLM-9876	Citric acid (1,5,6-carboxyl- <sup>13</sup> C <sub>3</sub> , 99%)	neat	0.1 mg, 0.1 g
CLM-9021	Citric acid ( <sup>13</sup> C <sub>6</sub> , 99%) CP 97%	neat	Please inquire
DLM-3487	Citric acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	0.5 g
CLM-7933	Creatine (guanidino- <sup>13</sup> C, 99%)	neat	0.1 g
DLM-1302	Creatine (methyl-D <sub>3</sub> , 98%) CP 97%	neat	0.25 g
DLM-286	Formic acid (D <sub>2</sub> , 98%)	neat	5 g
CLM-1529	Fumaric acid ( <sup>13</sup> C <sub>4</sub> , 99%)	neat	0.1 mg, 0.1 g
DLM-1539	Fumaric acid (2,3-D <sub>2</sub> , 98%)	neat	5 g
DLM-7654	Fumaric acid (D <sub>4</sub> , 98%)	neat	1 g
CDLM-6062	Fumaric acid (1- <sup>13</sup> C, 99%; 2,3-D <sub>2</sub> , 98%)	neat	Please inquire
CDLM-8473	Fumaric acid (1,4- <sup>13</sup> C <sub>2</sub> , 99%; 2,3-D <sub>2</sub> , 98%)	neat	0.1 g
CLM-10351	DL-2-Hydroxyglutaric acid, disodium salt ( <sup>13</sup> C <sub>5</sub> , 99%)	neat	1 mg, 0.01 g
DLM-9104	(RS)-2-Hydroxyglutaric acid, disodium salt (2,3,3-D <sub>3</sub> ; OD, 98%) CP 95%	neat	0.1 g
ULM-10479	(RS)-2-Hydroxyglutaric acid, disodium salt (unlabeled)	neat	0.01 g, 0.1 g
CLM-2411	α-Ketoglutaric acid ( <sup>13</sup> C <sub>5</sub> , 99%) CP 90%	neat	0.01 g, 0.1 g
DLM-9476	α-Ketoglutaric acid (D <sub>6</sub> , 98%)	neat	0.01 g, 0.1 g
CLM-4442	α-Ketoglutaric acid, disodium salt (1,2,3,4- <sup>13</sup> C <sub>4</sub> , 99%) CP 97%	neat	0.1 mg, 0.01 g, 0.1 g, 0.5 g
ULM-10648	α-Ketoglutaric acid, disodium salt, hydrate (unlabeled) CP 90%	neat	0.1 mg
CLM-4785	α-Ketoisocaproic acid, sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 g
DLM-1944	α-Ketoisocaproic acid, sodium salt (methyl-D <sub>3</sub> , 98%)	neat	0.5 g
DLM-4646	α-Ketoisovaleric acid, sodium salt (D <sub>7</sub> , 98%)	neat	Please inquire
CLM-9884	L-Kynurenone sulfate-½H <sub>2</sub> O ( <sup>13</sup> C <sub>10</sub> , 99%)	neat	Please inquire
DLM-9045	DL-Malic acid (2,3,3-D <sub>3</sub> , 98%)	neat	0.1 g
CLM-8065	L-Malic acid ( <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
DLM-1129	Maleic acid (2,3-D <sub>2</sub> , 98%)	neat	5 g
CLM-310	Maleic anhydride (1,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.25 g
CLM-312	Maleic anhydride (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.1 g
CLM-6019	Maleic anhydride ( <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
DLM-1853	Maleic anhydride (D <sub>2</sub> , 98%)	neat	1 g, 5 g
DLM-2312	DL-2-Methylcitric acid (methyl-D <sub>3</sub> , 98%) CP 90%	neat	5 mg, 10 mg
CLM-4285	3-Methylglutaconic acid (2,4- <sup>13</sup> C <sub>2</sub> , 3-methyl- <sup>13</sup> C, 99%)	neat	5 mg
CLM-10398-D	2-Methylglutaric acid (4,5- <sup>13</sup> C <sub>2</sub> , 98%) CP 95%	1 mg/mL in methanol	1 mL
CLM-10398	2-Methylglutaric acid (4,5- <sup>13</sup> C <sub>2</sub> , 98%) CP 95%	neat	Please inquire
CLM-9426	Methylmalonic acid ( <sup>13</sup> C <sub>4</sub> , 99%)	neat	0.1 g
DLM-387	Methylmalonic acid (methyl-D <sub>3</sub> , 98%) CP 98%	neat	0.25 g
ULM-10578	Methylmalonic acid, disodium salt (unlabeled) CP 95%	neat	Please inquire
CLM-3551	Potassium phosphoenol pyruvate (2- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-2723	Potassium phosphoenol pyruvate (3- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-3398	Potassium phosphoenol pyruvate (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.05 g
CLM-646	Propionic acid (1- <sup>13</sup> C, 99%)	neat	1 g
CLM-647	Propionic acid ( <sup>13</sup> C <sub>3</sub> , 99%)	neat	1 g
DLM-2488	Propionic acid (2,2-D <sub>2</sub> , 98%)	neat	1 g, 5 g
DLM-1137	Propionic acid (methyl-D <sub>3</sub> , 98%)	neat	5 g
DLM-1919	Propionic acid (D <sub>5</sub> , 98%)	neat	5 g
DLM-599	Propionic acid (D <sub>6</sub> , 98%)	neat	5 g

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Catalog No.	Description	Concentration	Unit Size
CLM-8849	Pyruvic acid (2- <sup>13</sup> C, 99%) CP 95%	neat	1 g, 5 g
CLM-9505	Pyruvic acid (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	neat	1 g, 5 g
CLM-2471	Sodium acetate – <sup>13</sup> C depleted (1,2- <sup>12</sup> C <sub>2</sub> , 99.95%)	neat	1 g
CLM-156	Sodium acetate (1- <sup>13</sup> C, 99%)	neat	1 g, 5 g, 10 g
CLM-381	Sodium acetate (2- <sup>13</sup> C, 99%)	neat	1 g, 5 g, 10 g
CLM-440	Sodium acetate (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	neat	1 g, 5 g
DLM-3126	Sodium acetate (D <sub>3</sub> , 99%)	neat	25 g
CDLM-611	Sodium acetate (1- <sup>13</sup> C, 99%; D <sub>3</sub> , 98%)	neat	1 g
CDLM-3457	Sodium acetate (1,2- <sup>13</sup> C <sub>2</sub> , 99%; D <sub>3</sub> , 98%)	neat	1 g
CDLM-1240	Sodium acetate (2- <sup>13</sup> C, 99%; D <sub>3</sub> , 98%)	neat	1 g
OLM-1077	Sodium acetate ( <sup>18</sup> O <sub>2</sub> , 95%)	neat	1 g
CLM-1256	Sodium butyrate (1- <sup>13</sup> C, 99%)	neat	1 g, 5 g
CLM-10426	Sodium butyrate ( <sup>13</sup> C <sub>4</sub> , 99%)	neat	0.1 g
DLM-641	Sodium butyrate (3,3,4,4,4-D <sub>5</sub> , 98%)	neat	Please inquire
DLM-7616	Sodium butyrate (D <sub>7</sub> , 98%)	neat	Please inquire
CLM-583	Sodium formate (1- <sup>13</sup> C, 99%)	neat	1 g, 5 g
OLM-8123	Sodium formate ( <sup>18</sup> O <sub>2</sub> , 95%)	neat	0.5 g
CLM-3706	Sodium D-3-hydroxybutyrate (2,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	1 g
CLM-3853	Sodium D-3-hydroxybutyrate ( <sup>13</sup> C <sub>4</sub> , 99%) CP 97%	neat	0.5 g
DLM-7644	Sodium D-3-hydroxybutyrate (4,4,4-D <sub>3</sub> , 99%)	neat	Please inquire
DLM-10415-D	Sodium DL-3-hydroxybutyrate (3,4,4,4-D <sub>4</sub> , 98%) CP 95%	1 mg/mL in water	1 mL
CLM-1577	Sodium L-lactate (1- <sup>13</sup> C, 99%)	20% w/w in water	1 g/compound
CLM-1578	Sodium L-lactate (3- <sup>13</sup> C, 98%)	20% w/w in water	0.25 g/compound, 0.5 g/compound, 1 g/compound
CLM-1579	Sodium L-lactate ( <sup>13</sup> C <sub>3</sub> , 98%)	20% w/w in water	0.5 g/compound
CLM-1579-N	Sodium L-lactate ( <sup>13</sup> C <sub>3</sub> , 98%)	neat	0.1 mg
DLM-9071	Sodium L-lactate (3,3,3-D <sub>3</sub> , 98%)	20% w/w in water	0.1 g/compound, 0.25 g/compound
CLM-771	Sodium propionate (1- <sup>13</sup> C, 99%)	neat	1 g
CLM-1506	Sodium propionate (2- <sup>13</sup> C, 99%)	neat	0.5 g, 1 g
CLM-4573	Sodium propionate (3- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-3042	Sodium propionate (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.25 g
CLM-1865	Sodium propionate ( <sup>13</sup> C <sub>3</sub> , 99%)	neat	0.1 g
DLM-1601	Sodium propionate (D <sub>5</sub> , 98%)	neat	0.1 g
CLM-1084	Succinic acid (1,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.25 g, 0.5 g, 1 g
CLM-1199	Succinic acid (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	neat	1 g
DLM-584	Succinic acid (D <sub>4</sub> , 98%)	neat	10 g, 50 g
DLM-831	Succinic acid (D <sub>6</sub> , 98%)	neat	5 g
CLM-9371	Succinic acid, disodium salt (2,3- <sup>13</sup> C <sub>2</sub> , 99%)	neat	1 g
DLM-2307	Succinic acid, disodium salt (D <sub>4</sub> , 80%) CP 95%	neat	10 g, 25 g
CLM-6755	Succinylacetone (3,4,5,6,7- <sup>13</sup> C <sub>5</sub> , 99%)	neat	0.01 g
NLM-1697	Uric acid (1,3- <sup>15</sup> N <sub>2</sub> , 98%)	neat	0.1 g, 0.5 g

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## Other Compounds

Catalog No.	Description	Concentration	Unit Size
CLM-173	Acetaldehyde (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.5 g, 1 g
DLM-112	Acetaldehyde (D <sub>4</sub> , 99%)	neat	1 g, 5 g
NLM-467	Ammonium chloride ( <sup>15</sup> N, 99%)	neat	1 g, 5 g, 10 g, 25 g, 50 g
NLM-711	Ammonium nitrate (ammonium- <sup>15</sup> N, 98%)	neat	1 g
NLM-711-10	Ammonium nitrate (ammonium- <sup>15</sup> N, 10%)	neat	Please inquire
NLM-712	Ammonium nitrate (nitrate- <sup>15</sup> N, 98%)	neat	1 g
NLM-712-10	Ammonium nitrate (nitrate- <sup>15</sup> N, 10%)	neat	Please inquire
NLM-390	Ammonium nitrate ( <sup>15</sup> N <sub>2</sub> , 98%)	neat	1 g
NLM-390-10	Ammonium nitrate ( <sup>15</sup> N <sub>2</sub> , 10%)	neat	Please inquire
NLM-390-5	Ammonium nitrate ( <sup>15</sup> N <sub>2</sub> , 5%)	neat	Please inquire
NLM-713	Ammonium sulfate ( <sup>15</sup> N <sub>2</sub> , 99%)	neat	1 g, 5 g, 10 g, 25 g, 50 g
NLM-713-10	Ammonium sulfate ( <sup>15</sup> N <sub>2</sub> , 10%)	neat	50 g
NLM-713-5	Ammonium sulfate ( <sup>15</sup> N <sub>2</sub> , 5%)	neat	Please inquire
DLM-1100	Ammonium sulfate (D <sub>8</sub> , 98%)	neat	5 g, 10 g
CLM-8141	Arsenobetaine bromide (carboxymethyl- <sup>13</sup> C <sub>2</sub> , 90%)	neat	Please inquire
CNLM-9695	5-Azacytosine (4,6- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N <sub>4</sub> , 98%)	neat	Please inquire
CLM-9435	N-(3-aminopropyl) Butane-1,4-diamine·3HCl (spermidine·3HCl) ( <sup>13</sup> C <sub>4</sub> , 99%) CP 95%	neat	5 mg
ULM-10264	N-(3-aminopropyl) Butane-1,4-diamine (unlabeled) CP 95%	neat	1 mg, 5 mg, 10 mg
DLM-9262	N,N'-bis(3-aminopropyl)-1,4-Butanediamine-4HCl (1,1,2,2,3,3,4,4-D <sub>8</sub> , 97%)	neat	5 mg, 10 mg
ULM-10265	N,N'-bis(3-aminopropyl)-1,4-Butanediamine-4HCl (unlabeled) CP 95%	neat	1 mg, 5 mg, 10 mg
DLM-4862	Cacodylic acid (D <sub>7</sub> , 98%)	neat	0.5 g
NLM-499	Calcium nitrate ( <sup>15</sup> N <sub>2</sub> , 98%)	neat	1 g
NLM-499-10	Calcium nitrate ( <sup>15</sup> N <sub>2</sub> , 10%)	neat	Please inquire
CLM-9256	(±)-Catechin (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	1 mg
CLM-10554	(±)-Catechin gallate (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
CLM-9876	Citric acid (1,5,6-carboxyl- <sup>13</sup> C <sub>3</sub> , 99%)	neat	0.1mg, 0.1 g
CLM-9021	Citric acid ( <sup>13</sup> C <sub>6</sub> , 99%) CP 97%	neat	Please inquire
DLM-2816	Clozapine (4-methylpiperazinyl-D <sub>4</sub> , 97%)	neat	5 mg, 10 mg
DLM-9786	p-Cresol sulfate, potassium salt (D <sub>7</sub> , 98%) CP 95%	neat	0.01 g
CNLM-4661-10X	Cyanuric acid ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 98%) CP 90%	1000 µg/mL in water	1.2 mL
CNLM-4661	Cyanuric acid ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 98%) CP 90%	100 µg/mL in water	1.2 mL
CLM-9255	1,3-Diaminobenzene ( <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	0.5 g
DLM-10544	Desethylamodiaquine (ethyl-D <sub>5</sub> , 97%)	neat	2 mg, 5 mg
DLM-2744	Enalaprilat-H <sub>2</sub> O (phenyl-D <sub>5</sub> , 98%)	neat	Please inquire
CLM-9257	(±)-Epicatechin (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
ULM-10550	(±)-Epicatechin (unlabeled) CP 97%	neat	1 mg, 5 mg
CLM-10553	(±)-Epicatechin gallate (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
CLM-10555	(±)-Epigallocatechin (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
CLM-10551	(±)-Epigallocatechin gallate (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
CLM-344	Ethanol (1- <sup>13</sup> C, 99%) <6% H <sub>2</sub> O	neat	0.5 g, 1 g
CLM-130	Ethanol (2- <sup>13</sup> C, 99%) <6% H <sub>2</sub> O	neat	0.5 g, 1 g
CLM-551	Ethanol (1,2- <sup>13</sup> C <sub>2</sub> , 99%) <6% H <sub>2</sub> O	neat	0.5 g, 1 g
CLM-2291	Ethanolamine ( <sup>13</sup> C <sub>2</sub> , 99%)	Please inquire	Please inquire
DLM-552	Ethanolamine (1,1,2,2-D <sub>4</sub> , 98%)	neat	0.1 g, 1 g
NLM-8722	Ethanolamine ( <sup>15</sup> N, 98%)	Please inquire	Please inquire
CLM-3911	Ethanolamine·HCl (1- <sup>13</sup> C, 99%)	neat	1 g
CLM-274	Ethanolamine·HCl (1,2- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.1 g, 0.25 g
CLM-9756	Galangin (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 95%	neat	1 mg
ULM-10281	Galangin (unlabeled)	neat	1 mg
CLM-10556	(±)-Gallocatechin (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
CLM-10552	(±)-Gallocatechin gallate (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg

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Catalog No.	Description	Concentration	Unit Size
CNLM-6245	Glutathione (glycine- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 96-99%) (65-70% net peptide) peptide purity 85-90%	neat	10 mg, 50 mg
CNLM-6245-HP	Glutathione (glycine- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 96-99%) (90% net peptide) peptide purity 95%	neat	10 mg
CNLM-8782	Glutathione disulfide (glycines- <sup>13</sup> C <sub>2</sub> , 98%; <sup>15</sup> N, 96-99%) (65-70% net peptide 90%) peptide purity 90%	neat	Please inquire
DLM-558	Glycerol (D <sub>8</sub> , 99%)	neat	1 g, 5 g
DLM-1326	Glycerol [(OD) <sub>3</sub> , 98%] CP 98%	neat	5 g, 10 g
NLM-6723	Guanidine-HBr ( <sup>15</sup> N <sub>3</sub> , 98%)	neat	0.1 g
CLM-10368	Hydrocinnamic acid (1- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-8877	Hydrocinnamic acid (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%)	neat	0.1 g
CNLM-10399	DL-3-Hydroxykynurenone (1,2,3- <sup>13</sup> C <sub>3</sub> , 98%; α-amino- <sup>15</sup> N, 98%)	neat	1 mg
CLM-9260	4-Hydroxy-3-methoxycinnamic acid (1',2',3'- <sup>13</sup> C <sub>3</sub> , 99%)	neat	1 mg, 5 mg
DLM-3033	Imidazole (D <sub>4</sub> , 98%)	neat	1 g, 5 g
DLM-7842	L-Kynurenine sulfate (ring-D <sub>4</sub> , 3,3-D <sub>2</sub> , 97%) CP 95%	neat	0.1 mg, 5 mg, 10 mg
CLM-7613	trans-Lycopene (8,8',9,9',10,10',11,11',19,19'- <sup>13</sup> C <sub>10</sub> , 99%)	neat	Please inquire
CNLM-10539	Mecamylamine·HCl (tetramethyl- <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N, 98%)	neat	1 mg, 10 mg
CNLM-8150-10X	Melamine ( <sup>13</sup> C <sub>3</sub> , 99%; amino- <sup>15</sup> N <sub>3</sub> , 98%)	1000 µg/mL in water	1.2 mL
CNLM-8150	Melamine ( <sup>13</sup> C <sub>3</sub> , 99%; amino- <sup>15</sup> N <sub>3</sub> , 98%)	100 µg/mL in water	1.2 mL
DLM-7101	Melatonin (acetyl-D <sub>3</sub> , 98%)	neat	5 mg, 10 mg
CLM-359	Methanol ( <sup>13</sup> C, 99%)	neat	1 g, 5 g
DLM-1211	Methanol (D, 98%)	neat	5 g
DLM-1209	Methanol (D <sub>2</sub> , 98%)	neat	5 g
CDLM-1035	Methanol ( <sup>13</sup> C, 99%; D <sub>3</sub> , 98%)	Please inquire	Please inquire
DLM-651	Methyl formate (formyl-D, 99%)	neat	5 g, 10 g
CLM-10408	N-Phenyl-1-naphthylamine (phenyl- <sup>13</sup> C <sub>6</sub> , 98%)	neat	1 mg
CLM-10409	N-Phenyl-2-naphthylamine (phenyl- <sup>13</sup> C <sub>6</sub> , 98%)	neat	1 mg
CLM-7831	(±)-Pantoprazole, sodium salt sesquihydrate (pyridyl-4-methoxy- <sup>13</sup> C, 98%)	neat	Please inquire
CLM-10410	Porphobilinogen (propanoic-1,2- <sup>13</sup> C <sub>2</sub> , 99%) CP 95%	neat	1 mg
NLM-765	Potassium nitrate ( <sup>15</sup> N, 99%)	neat	1 g
NLM-765-10	Potassium nitrate ( <sup>15</sup> N, 10%)	neat	Please inquire
CLM-222	Potassium thiocyanate ( <sup>13</sup> C, 95-99%) CP 95%	neat	0.5 g, 1 g
CNLM-3952	Potassium thiocyanate ( <sup>13</sup> C, 99%; <sup>15</sup> N, 98%)	neat	0.5 g
DLM-10542	Resorufin (D <sub>6</sub> , 98%) CP 96%	neat	10 mg, 50 mg
CLM-9259	Resveratrol (4-hydroxyphenyl- <sup>13</sup> C <sub>6</sub> , 99%)	neat	1 mg, 5 mg, 10 mg
DLM-3579	Serotonin creatinine sulfate complex (α,α,β,β-D <sub>4</sub> , 98%)	neat	Please inquire
CLM-441	Sodium bicarbonate ( <sup>13</sup> C, 99%)	neat	1 g, 5 g
CLM-3780	Sodium dichloroacetate ( <sup>13</sup> C <sub>2</sub> , 99%)	neat	Please inquire
CLM-9676	Sodium isopropyl carbonate (carbonyl- <sup>13</sup> C, 99%)	neat	Please inquire
NLM-157	Sodium nitrate ( <sup>15</sup> N, 98%)	neat	1 g, 5 g
CLM-796	Vanillic acid (carboxyl- <sup>13</sup> C, 99%)	neat	0.1 g
CLM-1867	Vanillic acid (ring- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 g
CLM-10417	Toxoflavin (3,4α,5,8α- <sup>13</sup> C <sub>4</sub> , 98%) CP 95%	neat	1 mg
DLM-4779	Trimethylamine N-oxide (D <sub>9</sub> , 98%)	neat	1 g

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## PeptiQuant™ Plus Assay Kits

### Biomarker Assessment Kits (BAKs)

Catalog No.	Description	Unit Size
BAK-A6490-125	PeptiQuant Plus Human Plasma Proteomics Kit for Agilent 6490 and 1290 UPLC	20, 50, or 100 samples
BAK-A6495-125	PeptiQuant Plus Human Plasma Proteomics Kit for Agilent 6495 and 1290 UPLC	20, 50, or 100 samples
BAK-SC6500-125	PeptiQuant Plus Human Plasma Proteomics Kit for Sciex QTRAP® 6500 and 1290 UPLC	20, 50, or 100 samples
BAK-QE-125	PeptiQuant Plus Human Plasma Proteomics Kit for Thermo Scientific™ Q Exactive™ Plus and 1290 UPLC	20, 50, or 100 samples
M-BAK-A6490-125	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6490 and 1290 UPLC	20, 50, or 100 samples
M-BAK-A6490-125-2*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6490 and 1290 UPLC	20, 50, or 100 samples
M-BAK-A6490-125-3*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6490 and 1290 UPLC	20, 50, or 100 samples
M-BAK-A6495-125	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6495 and 1290 UPLC	20, 50, or 100 samples
M-BAK-A6495-125-2*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6495 and 1290 UPLC	20, 50, or 100 samples
M-BAK-A6495-125-3*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6495 and 1290 UPLC	20, 50, or 100 samples
M-BAK-SC6500-125	PeptiQuant Plus Mouse Plasma Proteomics Kit for Sciex QTRAP 6500 and 1290 UPLC	20, 50, or 100 samples
M-BAK-6545-125-2*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Agilent 6545 and 1290 UPLC	20, 50, or 100 samples
M-BAK-QE-125	PeptiQuant Plus Mouse Plasma Proteomics Kit for Thermo Scientific Q Exactive Plus and 1290 UPLC	20, 50, or 100 samples
M-BAK-QE-125-2*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Thermo Scientific Q Exactive Plus and 1290 UPLC	20, 50, or 100 samples
M-BAK-QE-125-3*	PeptiQuant Plus Mouse Plasma Proteomics Kit for Thermo Scientific Q Exactive Plus and 1290 UPLC	20, 50, or 100 samples

\*The -2 and -3 demarcations refer to an alternate set of 125 target proteins.

### Quality Control (QC) Kits

Catalog No.	Description	Unit Size
LCMSP-QC-6490-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Agilent 6490 and 1290 UPLC	10, 20, or 50 injections
LCMSP-QC-6495-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Agilent 6495 and 1290 UPLC	10, 20, or 50 injections
LCMSP-QC-6500-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Sciex QTRAP 6500 and 1290 UPLC	10, 20, or 50 injections
LCMSP-QC-QE-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Thermo Scientific Q Exactive Plus and 1290 UPLC	10, 20, or 50 injections
WFPK-A6490-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Agilent 6490 and 1290 UPLC	1 or 2 runs
WFPK-A6495-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Agilent 6495 and 1290 UPLC	1 or 2 runs
WFPK-SC6500-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Sciex 6500 and 1290 UPLC	1 or 2 runs
WFPK-QE-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Thermo Scientific Q Exactive Plus and 1290 UPLC	1 or 2 runs

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## Pharmaceutical and Personal Care Products

### *n*-Alkane Standards

Catalog No.	Description	Concentration	Unit Size
DLM-133	<i>n</i> -Decane (D <sub>22</sub> , 99%)	neat	1 g, 5 g
DLM-338	<i>n</i> -Dodecane (D <sub>26</sub> , 98%)	neat	1 g, 5 g
DLM-2724	<i>n</i> -Dotriacontane (D <sub>66</sub> , 98%)	neat	1 g
DLM-2208	<i>n</i> -Eicosane (D <sub>42</sub> , 98%)	neat	0.5 g, 1 g
DLM-1342	<i>n</i> -Heptadecane (D <sub>36</sub> , 98%) (5% related perdeuterated alkanes) CP 95%	neat	1 g, 5 g
DLM-423	<i>n</i> -Heptane (D <sub>16</sub> , 98%)	neat	1 g, 5 g
DLM-203	<i>n</i> -Hexadecane (D <sub>34</sub> , 98%)	neat	0.1 g, 1 g, 5 g
DLM-139	<i>n</i> -Hexane (D <sub>14</sub> , 98%)	neat	1 g, 5 g
DLM-2634	<i>n</i> -Hexatriacontane (D <sub>74</sub> , 98%)	neat	1 g
DLM-1346	<i>n</i> -Nonadecane (D <sub>40</sub> , 98%)	neat	0.1 g, 1 g
DLM-2438	<i>n</i> -Nonane (D <sub>20</sub> , 98%)	neat	1 g, 5 g
DLM-1283	<i>n</i> -Pentadecane (D <sub>32</sub> , 98%)	neat	1 g, 5 g
DLM-1213	<i>n</i> -Pentane (D <sub>12</sub> , 98%)	neat	1 g, 5 g
DLM-50	<i>n</i> -Octane (D <sub>18</sub> , 99%)	neat	1 g, 5 g
DLM-2209	<i>n</i> -Tetracosane (D <sub>50</sub> , 98%)	neat	0.5 g
DLM-670	<i>n</i> -Tetradecane (D <sub>30</sub> , 98%)	neat	1 g, 5 g
DLM-2210	<i>n</i> -Triacontane (D <sub>62</sub> , 98%) CP 97%	neat	0.5 g
DLM-3336	<i>n</i> -Tricosane (D <sub>48</sub> , 98%)	neat	1 g
DLM-1354	<i>n</i> -Tridecane (D <sub>28</sub> , 98%)	neat	1 g, 5 g

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## Bisphenol Standards

Catalog No.	Description	Concentration	Unit Size
ULM-8654	2,4'-Bisphenol A (2-(2-hydroxyphenyl)-2-(4-hydroxyphenyl)propane) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-4325	Bisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7106	Bisphenol A (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-9193	Bisphenol A diglycidyl ether (BADGE) (diglycidyl-D <sub>10</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9857	Bisphenol A diglycidyl ether (BADGE) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-9831	Bisphenol A β-D-glucuronide (unlabeled) CP 90%	100 µg/mL in methanol	1.2 mL
ULM-9832	Bisphenol A bis-(β-D-glucuronide), disodium salt (unlabeled) CP 90%	100 µg/mL in methanol	1.2 mL
ULM-9833	Bisphenol A bisulfate, disodium salt (unlabeled) CP 90%	100 µg/mL in methanol	1.2 mL
CLM-9776	Bisphenol AF (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-9779	Bisphenol AF (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-9830	Bisphenol AP (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-9851	Bisphenol B (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9852	Bisphenol B (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-9826	Bisphenol E (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-9866	Bisphenol F (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9827	Bisphenol F (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-9867	Bisphenol F diglycidyl ether (BFDGE) (ring- <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9868	Bisphenol F diglycidyl ether (BFDGE) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-9829	Bisphenol P (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-9319	Bisphenol S ( <sup>13</sup> C <sub>12</sub> , 98%)	100 µg/mL in methanol	1.2 mL
ULM-9320	Bisphenol S (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-9828	Bisphenol Z (unlabeled)	100 µg/mL in methanol	1.2 mL

## Chlorinated Paraffin Standards

Catalog No.	Description	Concentration	Unit Size
CLM-9000	1,5,5,6,6,10-Hexachlorodecane ( <sup>13</sup> C <sub>10</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8917	1,5,5,6,6,10-Hexachlorodecane (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-9679	1,1,1,3,10,12,12,12-Octachlorododecane ( <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-9485	1,1,1,3,10,12,12,12-Octachlorododecane (unlabeled)	100 µg/mL in nonane	1.2 mL

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## Endocrine-Disrupting Compounds and Xenoestrogen Standards

Catalog No.	Description	Concentration	Unit Size
CLM-1643	Acenaphthene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-108	Acenaphthene ( $\text{D}_{10}$ , 98%)	200 µg/mL in isooctane	1.2 mL
ULM-7413	Acenaphthene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-4675	Bis(2-ethylhexyl) adipate (adipate- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-3727	Alachlor (ring- $^{13}\text{C}_6$ , 99%) CP 96%	100 µg/mL in nonane	1.2 mL
ULM-10027	Alachlor (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4725	Aldrin ( $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-1333	Anthracene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-102	Anthracene ( $\text{D}_{10}$ , 98%)	200 µg/mL in isoctane	1.2 mL
ULM-7412	Anthracene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-3737-MT	Atrazine (ring- $^{13}\text{C}_3$ , 99%)	100 µg/mL in MTBE*	1.2 mL
CLM-3737	Atrazine (ring- $^{13}\text{C}_3$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-3602	Benz[a]anthracene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-610	Benz[a]anthracene ( $\text{D}_{12}$ , 98%)	200 µg/mL in isoctane	1.2 mL
ULM-2415-I	Benz[a]anthracene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-2722	Benzo[a]pyrene ( $^{13}\text{C}_4$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-258	Benzo[a]pyrene ( $\text{D}_{12}$ , 97%)	200 µg/mL in isoctane	1.2 mL
ULM-2412-I	Benzo[a]pyrene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-6170	Benzo[e]pyrene ( $^{13}\text{C}_4$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-257	Benzo[e]pyrene ( $\text{D}_{12}$ , 98%)	200 µg/mL in isoctane	1.2 mL
ULM-7423	Benzo[e]pyrene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-3599	Benzo[b]fluoranthene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-2136	Benzo[b]fluoranthene ( $\text{D}_{12}$ , 98%)	200 µg/mL in isoctane	1.2 mL
ULM-2416-I	Benzo[b]fluoranthene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-9590	Benzo[j]fluoranthene ( $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-2411	Benzo[j]fluoranthene (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-3756	Benzo[k]fluoranthene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-1923	Benzo[k]fluoranthene ( $\text{D}_{12}$ , 98%)	200 µg/mL in isoctane	1.2 mL
CLM-9730	Benzo[c]phenanthrene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8155	Benzo[c]phenanthrene (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-183	Benzophenone ( $\text{D}_{10}$ , 98%)	100 µg/mL in nonane	1.2 mL
ULM-8303	Benzophenone (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1369	Benzyl butyl phthalate (ring- $\text{D}_4$ , 98%)	100 µg/mL in nonane	1.2 mL
CLM-2482	$\alpha$ -HCH ( $\alpha$ -BHC) ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-3623	$\beta$ -HCH ( $\beta$ -BHC) ( $^{13}\text{C}_6$ , 99%)	50 µg/mL in nonane	2 × 1.2 mL
CLM-1282	$\gamma$ -HCH ( $\gamma$ -BHC) (lindane) ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8654	2,4'-Bisphenol A (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-4325	Bisphenol A (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7106	Bisphenol A (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-9319	Bisphenol S ( $^{13}\text{C}_{12}$ , 98%)	100 µg/mL in methanol	1.2 mL
ULM-9320	Bisphenol S (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-9776	Bisphenol AF (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-9779	Bisphenol AF (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-4674	<i>n</i> -Butylbenzene (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4682	Carbaryl (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8096	Carbaryl (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-1911	Carbofuran (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in 1,4-dioxane	1.2 mL
ULM-7419	Carbofuran (unlabeled)	100 µg/mL in 1,4-dioxane	1.2 mL
CLM-4792	<i>trans</i> -Chlordane ( $\gamma$ ) ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4814	Chlordecone (kepone) ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-2301	Chlordecone (kepone) (unlabeled)	100 µg/mL in nonane	1.2 mL

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## Endocrine-Disrupting Compounds and Xenoestrogen Standards (continued)

Catalog No.	Description	Concentration	Unit Size
CLM-4758	Chlordene ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7443	Chlordene (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-4360	Chlorpyrifos (diethyl-D <sub>10</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-3757	Chrysene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-261	Chrysene (D <sub>12</sub> , 98%)	200 µg/mL in toluene-D <sub>8</sub>	1.2 mL
ULM-7424	Chrysene (unlabeled)	200 µg/mL in toluene	1.2 mL
CLM-7293	Cyfluthrin (mix of stereoisomers) (phenoxy- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7454	Cyfluthrin (mix of stereoisomers) (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-7292	Cypermethrin (mix of stereoisomers) (phenoxy- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7453	Cypermethrin (mix of stereoisomers) (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-4461	Daidzein (3',5',8-D <sub>3</sub> , 97%)	60 µg/mL in acetonitrile-D <sub>3</sub>	2 × 1.2 mL
ULM-4459	Daidzein (unlabeled)	60 µg/mL in acetonitrile	1.2 mL
CLM-6999	2,4'-DDD (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-3533	4,4'-DDD (ring-D <sub>8</sub> , 98%)	100 µg/mL in nonane	1.2 mL
CLM-4693	2,4'-DDE (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6251	2,4'-DDE (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-1627	4,4'-DDE (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4692	2,4'-DDT (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6134	2,4'-DDT (unlabeled) CP 97%	100 µg/mL in nonane	1.2 mL
CLM-1281	4,4'-DDT (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6135	4,4'-DDT (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1148	Diazinon (diethyl-D <sub>10</sub> , 98%)	100 µg/mL in nonane	1.2 mL
CLM-126	1,2-Dichlorobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in isooctane	1.2 mL
ULM-7415	1,2-Dichlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-4484	1,3-Dichlorobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in isoctane	1.2 mL
ULM-7431	1,3-Dichlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
DLM-1669	2,4-Dichlorophenol (ring-D <sub>3</sub> , OD, 98%)	neat	0.1 g
CLM-1858	2,4-Dichlorophenoxyacetic acid (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in acetonitrile	1.2 mL
CLM-4726	Dieldrin ( $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7230	Dieldrin (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-7151	Dimethoate (O,O-dimethyl-D <sub>6</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7972	Dimethoate (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-6025	Endosulfan I ( $^{13}\text{C}_9$ , 99%) CP 95%	100 µg/mL in nonane	1.2 mL
DLM-2862	Endosulfan I (D <sub>4</sub> , 97%)	100 µg/mL in nonane	1.2 mL
ULM-7447	Endosulfan I (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-6026	Endosulfan II ( $^{13}\text{C}_9$ , 99%) CP 95%	100 µg/mL in nonane	1.2 mL
ULM-7448	Endosulfan II (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-7531	Endosulfan sulfate ( $^{13}\text{C}_9$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7990	Endosulfan sulfate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4782	Endrin ( $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7444	Endrin (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4815	Endrin aldehyde ( $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4815	Endrin aldehyde ( $^{13}\text{C}_{12}$ , 99%) CP 90%	neat	50 µg
ULM-8958	Endrin aldehyde (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4816	Endrin ketone ( $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4816	Endrin ketone ( $^{13}\text{C}_{12}$ , 99%) CP 95%	neat	50 µg
ULM-8956	Endrin ketone (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-3374	Epichlorohydrin ( $^{13}\text{C}_3$ , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7403	Epichlorohydrin (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-4460	Genistein (3',5',6,8-D <sub>4</sub> , 94%)	100 µg/mL in acetonitrile	1.2 mL
CNLM-4666	Glyphosate (2- $^{13}\text{C}$ , 99%; $^{15}\text{N}$ , 98%) CP 96%	100 µg/mL in water	1.2 mL, 10 mL
CNLM-4666-10X	Glyphosate (2- $^{13}\text{C}$ , 99%; $^{15}\text{N}$ , 98%) CP 96%	1000 µg/mL in water	1.2 mL

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Catalog No.	Description	Concentration	Unit Size
CNLM-6792	Glyphosate ( $^{13}\text{C}_3$ , 99%; $^{15}\text{N}$ , 98%) CP 95%	100 µg/mL in water	1.2 mL
ULM-6876	Glyphosate (unlabeled)	100 µg/mL in water	1.2 mL
CLM-4759	Heptachlor ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-2424	Heptachlor (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4734	cis-Heptachlor epoxide ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-2425	cis-Heptachlor epoxide (unlabeled)	100 µg/mL in nonane	1.2 mL
EB-5162	2,2',4,4',5,5'-HexaBB (PBB-153) ( $^{13}\text{C}_{12}$ , 99%)	40 ± 4 µg/mL in nonane	1.2 mL
PBB-153-CS	2,2',4,4',5,5'-HexaBB (PBB 153) (unlabeled) Certified Standard	100 µg/mL in isoctane	1.2 mL
CLM-351	Hexachlorobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6130	Hexachlorobenzene (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-9000	1,5,5,6,6,10-Hexachlorodecane ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8917	1,5,5,6,6,10-Hexachlorodecane (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-9429	Hp-Sed (unlabeled)	10 µg/mL in nonane	1.2 mL
ULM-9428	Hx-Sed (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-3600	Indeno[1,2,3-cd]pyrene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
DLM-2148	Indeno[1,2,3-cd]pyrene (D <sub>12</sub> , 98%)	200 µg/mL in isoctane	1.2 mL
CLM-4727	Isodrin ( $^{13}\text{C}_{12}$ , 99%) CP 95%	100 µg/mL in nonane	1.2 mL
ULM-7442	Isodrin (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-4476	Malathion (D <sub>10</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8122	Malathion (unlabeled)	100 µg/mL in nonane	1.2 mL
CNLM-8150	Melamine ( $^{13}\text{C}_3$ , 99%; amino- $^{15}\text{N}_3$ , 98%)	100 µg/mL in water	1.2 mL
CNLM-8150-10X	Melamine ( $^{13}\text{C}_3$ , 99%; amino- $^{15}\text{N}_3$ , 98%)	1000 µg/mL in water	1.2 mL
ULM-8156	Melamine (unlabeled)	100 µg/mL in water	1.2 mL
CNLM-7148	Methomyl (acetohydroxamate- $^{13}\text{C}_2$ , 99%; $^{15}\text{N}$ , 98%) CP 97%	100 µg/mL in methanol	1.2 mL
ULM-8639	Methomyl (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-4683	Methoxychlor (ring- $^{13}\text{C}_{12}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7440	Methoxychlor (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-2943	2,6-Di(t-butyl)-4-methylphenol (BHT) (D <sub>21</sub> , 98%)	100 µg/mL in nonane	1.2 mL
CLM-3712	Metolachlor (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7314	Metolachor (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4813	Mirex ( $^{13}\text{C}_{10}$ , 99%) CP 98%	100 µg/mL in nonane	1.2 mL
ULM-2427	Mirex (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-8246	Musk ketone (butyl-D <sub>9</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-8290	Musk ketone (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-8278	Musk xylene (butyl-D <sub>9</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9957	Musk xylene (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-1332	Naphthalene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7425	Naphthalene (unlabeled)	200 µg/mL in isoctane	1.2 mL
CLM-3914	DL-Nicotine (3',4',5'- $^{13}\text{C}_3$ , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9547	Nicotine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-3913-S	4-Nitrotoluene (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in acetonitrile	1 mL
ULM-3891	4-Nitrotoluene (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
CLM-4811	cis-Nonachlor ( $^{13}\text{C}_{10}$ , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7445	cis-Nonachlor (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4735	trans-Nonachlor ( $^{13}\text{C}_{10}$ , 98%)	100 µg/mL in nonane	1.2 mL
ULM-7229	trans-Nonachlor (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4306	p-n-Nonylphenol (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4306-M	p-n-Nonylphenol (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-4559	p-n-Nonylphenol (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4559-M	p-n-Nonylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL

\*MTBE: methyl tert-butyl ether

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## Endocrine-Disrupting Compounds and Xenoestrogen Standards (continued)

Catalog No.	Description	Concentration	Unit Size
CLM-4307	p-n-Nonylphenol diethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4307-M	p-n-Nonylphenol diethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-4521	p-n-Nonylphenol diethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4521-M	p-n-Nonylphenol diethoxylate (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-7147	Nonylphenol diethoxylate-branched isomers (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4512	p-n-Nonylphenol monoethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4512-M	p-n-Nonylphenol monoethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-4520	p-n-Nonylphenol monoethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4520-M	p-n-Nonylphenol monoethoxylate (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-7146	Nonylphenol monoethoxylate-branched isomers (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4516	p-n-Nonylphenol triethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 90%	100 µg/mL in nonane	1.2 mL
CLM-9679	1,1,1,3,10,12,12,12-Octachlorododecane ( <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-9485	1,1,1,3,10,12,12,12-Octachlorododecane (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4729	Oxychlordane ( <sup>13</sup> C <sub>10</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6139	Oxychlordane (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-9849	Benzyl paraben (benzyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9850	Benzyl paraben (benzyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8285	n-Butyl paraben (n-butyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8287	n-Butyl paraben (n-butyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9761	Ethyl paraben (ethyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9760	Ethyl paraben (ethyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10451	n-Heptyl paraben (n-heptyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-10442	n-Heptyl paraben (n-heptyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9847	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9848	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9845	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9846	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8249	Methyl paraben (methyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8250	Methyl paraben (methyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10450	n-Pentyl paraben (n-pentyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-10441	n-Pentyl paraben (n-pentyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9763	n-Propyl paraben (n-propyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9762	n-Propyl paraben (n-propyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
DLM-2970	Parathion (diethyl-D <sub>10</sub> , 98%)	100 µg/mL in nonane	1.2 mL
ULM-8144	Parathion (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-7930	Parlar 26 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-7828	Parlar 26 (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-8705	Parlar 32 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-8665	Parlar 32 (unlabeled)	10 µg/mL in nonane	1.2 mL
ULM-9005	Parlar 38 (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-8719	Parlar 39 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-8767	Parlar 39 (unlabeled)	10 µg/mL in nonane	1.2 mL
ULM-9431	Parlar 41 (unlabeled)	10 µg/mL in nonane	1.2 mL
ULM-9432	Parlar 44 (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-7931	Parlar 50 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-7829	Parlar 50 (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-7932	Parlar 62 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-7830	Parlar 62 (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-8720	Parlar 69 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-8768	Parlar 69 (unlabeled)	10 µg/mL in nonane	1.2 mL
CLM-8721	Parlar 70 ( <sup>13</sup> C <sub>10</sub> , 99%)	10 µg/mL in nonane	1.2 mL
ULM-8769	Parlar 70 (unlabeled)	10 µg/mL in nonane	1.2 mL

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Catalog No.	Description	Concentration	Unit Size
EC-1404-3	PCB-77 (3,3',4,4'-tetraCB) ( <sup>13</sup> C <sub>12</sub> , 99%)	40 ± 2 µg/mL in nonane	3 mL
EC-1425-3	PCB-126 (3,3',4,4',5-pentaCB) ( <sup>13</sup> C <sub>12</sub> , 99%)	40 ± 2 µg/mL in nonane	3 mL
EC-1416-3	PCB-169 (3,3',4,4',5,5'-hexaCB) ( <sup>13</sup> C <sub>12</sub> , 99%)	40 ± 2 µg/mL in nonane	3 mL
CLM-2050	Pentachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in isoctane	1.2 mL
ULM-7234	Pentachlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-1955	Pentachloronitrobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7597	Pentachloronitrobenzene (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-661	Pentachlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6894	Pentachlorophenol (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-10655	Perfluoroctanesulfonate (PFOS) (unlabeled) mix of isomers	50 µg/mL in methanol	1.2 mL
CLM-8505	Perfluoroctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-9001	Perfluoroctanesulfonate (PFOS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8005	Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-7451	Perfluorooctanoic acid (PFOA) (unlabeled) CP 96%	50 µg/mL in methanol	1.2 mL
CLM-7322	cis-Permethrin (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in nonane	1.2 mL
ULM-8526	cis-Permethrin (unlabeled)	50 µg/mL in nonane	1.2 mL
CLM-7323	trans-Permethrin (phenoxy- <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in nonane	1.2 mL
ULM-8527	trans-Permethrin (unlabeled)	50 µg/mL in nonane	1.2 mL
CLM-2451	Phenanthrene ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
DLM-371	Phenanthrene (D <sub>10</sub> , 98%)	200 µg/mL in isoctane	1.2 mL
ULM-7427	Phenanthrene (unlabeled)	200 µg/mL in isoctane	1.2 mL
DLM-695	Phenol (ring-D <sub>5</sub> , 98%)	neat	1 g, 5 g
DLM-1368	Bis(2-ethylhexyl) phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
ULM-6241	Bis(2-ethylhexyl) phthalate (unlabeled)	1000 µg/mL in nonane	1.2 mL
DLM-1629	Diethyl phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
ULM-6174	Diethyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1367	Di-n-butyl phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
ULM-7466	Di-n-butyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4669	Di-n-hexyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7434	Di-n-hexyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4668	Di-n-pentyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7433	Di-n-pentyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4671	Di-n-propyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
DLM-7141	Propoxur (isopropyl-D <sub>7</sub> , 98%)	100 µg/mL in nonane	1.2 mL
ULM-9765	Propoxur (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-3739	Simazine (ring- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1.2 mL
CLM-3739-A	Simazine (ring- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7893	Simazine (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-7893-A	Simazine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-4694	Tetrabromobisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in methanol	1.2 mL
CLM-4694-T	Tetrabromobisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in toluene	1.2 mL
ULM-8734	Tetrabromobisphenol A (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-8734-T	Tetrabromobisphenol A (unlabeled)	50 µg/mL in toluene	1.2 mL
ED-900	2,3,7,8-Tetrachlorodibenzo-p-dioxin ( <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in nonane	1.2 mL
ED-901	2,3,7,8-Tetrachlorodibenzo-p-dioxin (unlabeled)	50 µg/mL in nonane	4 × 1.2 mL
DLM-7136	Tributyltin chloride (D <sub>27</sub> , 98%)	100 µg/mL in methylene chloride-D <sub>2</sub>	1.2 mL
ULM-8061	Tributyltin chloride (unlabeled) CP 97%	100 µg/mL in methylene chloride	1.2 mL
CLM-4551	2,4,5-Trichlorophenoxyacetic acid (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methylene chloride	1.2 mL
ULM-7213	2,4,5-Trichlorophenoxyacetic acid (unlabeled)	100 µg/mL in methylene chloride	1.2 mL

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Endocrine-Disrupting Compounds and Xenoestrogen Standards (continued)

Catalog No.	Description	Concentration	Unit Size
CLM-9049	3,5,6-Trichloro-2-pyridinol (TCPY) (4,5,6- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	100 µg/mL in acetonitrile	1.2 mL
ULM-9204	3,5,6-Trichloro-2-pyridinol (TCPY) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-6779	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) ( <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-6779-MT	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) ( <sup>13</sup> C <sub>12</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-6935	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-6935-MT	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
DLM-4479	Trifluralin (di-n-propyl-D <sub>14</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-4444	Urethane (ethyl carbamate) (ethyl-D <sub>5</sub> , 98%)	neat	0.1 g
DLM-167	Vinyl chloride (D <sub>3</sub> , 98%)	50 µg/mL in methanol-OD	1.2 mL
ULM-8224	Vinyl chloride (unlabeled)	50 µg/mL in methanol	1.2 mL

\*MTBE: methyl tert-butyl ether

## Explosive Standards

Catalog No.	Description	Concentration	Unit Size
CLM-1519	1,3-Dinitrobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in acetonitrile	1 mL
CLM-1519	1,3-Dinitrobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 g
ULM-3850	1,3-Dinitrobenzene (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
DLM-299	2,4-Dinitrophenol (ring-D <sub>3</sub> , 98%) contains 0.35 mg/mL deuterium oxide	1 mg/mL in methanol-OD	10 mL
ULM-8706	2,4-Dinitrophenol (unlabeled) contains 0.35 mg/mL water	1 mg/mL in methanol	10 mL
DLM-2207	2,4-Dinitrotoluene (ring-D <sub>3</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
ULM-3888	2,4-Dinitrotoluene (unlabeled)	1 mg/mL in acetonitrile	1 mL
DLM-1939	2,6-Dinitrotoluene (methyl-D <sub>3</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
ULM-3889	2,6-Dinitrotoluene (unlabeled)	1 mg/mL in acetonitrile	1 mL
CNLM-7963	HMX ( <sup>13</sup> C <sub>4</sub> , 99%; ring- <sup>15</sup> N <sub>4</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
ULM-7969	HMX (unlabeled)	1 mg/mL in acetonitrile	1 mL
CLM-675	Nitrobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 g
DLM-294	Nitrobenzene (D <sub>3</sub> , 99%)	neat	5 g, 10 g
ULM-3892	Nitrobenzene (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
NLM-814	Nitroglycerin ( <sup>15</sup> N <sub>3</sub> , 98%)	1 mg/mL in ethanol	1.2 mL
ULM-3893	Nitroglycerin (unlabeled)	1 mg/mL in acetonitrile	1 mL
CLM-3912	2-Nitrotoluene (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in acetonitrile	1 mL
ULM-3890	2-Nitrotoluene (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
CLM-3913	4-Nitrotoluene (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in acetonitrile	1 mL
ULM-3891	4-Nitrotoluene (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
CLM-3846	RDX ( <sup>13</sup> C <sub>3</sub> , 99%)	1 mg/mL in acetonitrile	1 mL
CNLM-7987	RDX ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 98%)	1 mg/mL in acetonitrile	1 mL
ULM-3847	RDX (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
CLM-3848	1,3,5-Trinitrobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in acetonitrile	1 mL
ULM-3849	1,3,5-Trinitrobenzene (unlabeled)	1 mg/mL in acetonitrile	1.2 mL
CNLM-3643	2,4,6-Trinitrotoluene (TNT) ( <sup>13</sup> C <sub>7</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 98%)	1 mg/mL in benzene (wetted with 33% water by weight)	1 mL
ULM-3845	2,4,6-Trinitrotoluene (TNT) (unlabeled)	1 mg/mL in acetonitrile	1.2 mL

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
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## Food and Drinking Water Impurity Standards

Catalog No.	Description	Concentration	Unit Size
CLM-813	Acrylamide (1,2,3- <sup>13</sup> C <sub>3</sub> , 99%) (with 100 ppm hydroquinone)	1 mg/mL in methanol	1.2 mL
ULM-6721	Acrylamide (unlabeled) (with 100 ppm hydroquinone)	1 mg/mL in methanol	1.2 mL
DLM-10285	Allyl alcohol (D <sub>5</sub> , 98%)	2 mg/mL in methanol	1.2 mL
ULM-10288	Allyl alcohol (unlabeled)	10 mg/mL in methanol	1.2 mL
DLM-7170	1-Aminohydantoin hydrochloride (AHD) (5,5-D <sub>2</sub> , 98%)	100 µg/mL in acetonitrile-D <sub>3</sub>	1.2 mL
ULM-7188	1-Aminohydantoin hydrochloride (AHD) (unlabeled)	100 µg/mL in methanol	1.2 mL
DLM-7171	3-Amino-2-oxazolidone (AOZ) (ring-D <sub>4</sub> , 98%)	100 µg/mL in acetonitrile-D <sub>3</sub>	1.2 mL
ULM-7189	3-Amino-2-oxazolidone (AOZ) (unlabeled)	100 µg/mL in methanol	1.2 mL
DLM-7172	5-(4-morpholinylmethyl)-3-Amino-2-oxazolidinone (AMOZ) (4,4,5,5',5'-D <sub>5</sub> , 98%)	100 µg/mL in acetonitrile-D <sub>3</sub>	1.2 mL
ULM-7190	5-(4-morpholinylmethyl)-3-Amino-2-oxazolidinone (AMOZ) (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-8589	Ammelide (ring- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in water: diethylamine (4:1)	1.2 mL
ULM-8590	Ammelide (unlabeled) CP 92%	100 µg/mL in water: diethylamine (4:1)	1.2 mL
CLM-8316	Ammeline (desethyldesisopropylhydroxyatrazine) (ring- <sup>13</sup> C <sub>3</sub> , 99%) CP 94%	100 µg/mL in water: diethylamine (4:1)	1.2 mL
ULM-8323	Ammeline (desethyldesisopropylhydroxyatrazine) (unlabeled)	100 µg/mL in water: diethylamine (4:1)	1.2 mL
CLM-4748	1,6-Anhydro-β-D-glucose (levoglucosan) ( <sup>13</sup> C <sub>6</sub> , 98%)	100 µg/mL in DMSO	1.2 mL
ULM-8000	1,6-Anhydro-β-D-glucose (levoglucosan) (unlabeled)	100 µg/mL in DMSO	1.2 mL
DLM-1598	n-Butanol (D <sub>10</sub> , 98%)	2 mg/mL in methanol	1.2 mL
ULM-10286	n-Butanol (unlabeled)	10 mg/mL in methanol	1.2 mL
DLM-119	(±)-Chloramphenicol (ring-D <sub>4</sub> , benzyl-D, 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-6687	(±)-Chloramphenicol (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-263	Chlorobenzene-D <sub>5</sub> (D, 99%)	2 mg/mL in methanol	1.2 mL
ULM-8138	Chlorobenzene (unlabeled)	2 mg/mL in methanol	1.2 mL
DLM-4633	3-Chloro-1,2-propanediol (propane-D <sub>5</sub> , 98%)	1 mg/mL in methanol	1.2 mL
ULM-7998	3-Chloro-1,2-propanediol (unlabeled)	1 mg/mL in methanol	1.2 mL
CNLM-4661	Cyanuric acid ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 98%) CP 90%	100 µg/mL in water	1.2 mL
CNLM-4661-10X	Cyanuric acid ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>3</sub> , 98%) CP 90%	1000 µg/mL in water	1.2 mL
ULM-8157	Cyanuric acid (unlabeled)	100 µg/mL in water	1.2 mL
DLM-1632	Diethylene glycol (D <sub>8</sub> , 98%) CP 95%	1 mg/mL in methanol	1.2 mL
ULM-8235	Diethylene glycol (unlabeled)	1 mg/mL in methanol	1.2 mL
CNLM-8150	Melamine ( <sup>13</sup> C <sub>3</sub> , 99%; amino- <sup>15</sup> N <sub>3</sub> , 98%)	100 µg/mL in water	1.2 mL
CNLM-8150-10X	Melamine ( <sup>13</sup> C <sub>3</sub> , 99%; amino- <sup>15</sup> N <sub>3</sub> , 98%)	1000 µg/mL in water	1.2 mL
ULM-8156	Melamine (unlabeled)	100 µg/mL in water	1.2 mL
DLM-4412	(-)Menthol (1,2,6,6-D <sub>4</sub> , 98%)	neat	25 mg
ULM-10287	2-Methoxyethanol (unlabeled)	10 mg/mL in methanol	1.2 mL
CNLM-10424	β-N-Methylamino-L-alanine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) US patent pending: 62/368,562	100 µg/mL in 0.1 M HCl	1.2 mL
CNLM-10424	β-N-Methylamino-L-alanine ( <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) US patent pending: 62/368,562	neat	0.01 g
ULM-10493	β-N-Methylamino-L-alanine·HCl (unlabeled) CP 97%	100 µg/mL in 0.1 M HCl	1.2 mL
ULM-10493	β-N-Methylamino-L-alanine·HCl (unlabeled) CP 97%	neat	Please inquire
DLM-4766	2-Methylisoborneol (2-methyl-D <sub>3</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-2943	2,6-Di(t-butyl)-4-methylphenol (D <sub>21</sub> , 98%) (BHT*)	100 µg/mL in nonane	1.2 mL
ULM-7494	2,6-Di(t-butyl)-4-methylphenol (unlabeled) (BHT*)	100 µg/mL in nonane	1.2 mL
NLM-10345	Microcystin-LA ( <sup>15</sup> N <sub>7</sub> , 98%)	10 µg/mL in methanol: water (1:1)	1.2 mL
ULM-10346	Microcystin-LA (unlabeled)	10 µg/mL in methanol: water (1:1)	1.2 mL

\*BHT: butylated hydroxytoluene

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## Food and Drinking Water Impurity Standards (continued)

Catalog No.	Description	Concentration	Unit Size
NLM-10295	Microcystin-LR ( $^{15}\text{N}_{10}$ , 97%)	10 µg/mL in methanol: water (1:1)	1.2 mL
ULM-10342	Microcystin-LR (unlabeled)	10 µg/mL in methanol: water (1:1)	1.2 mL
DLM-10260	Microcystin-LR, ethylated ( $\text{D}_5$ , 98%)	neat	0.025 mg
NLM-10340	Microcystin-RR ( $^{15}\text{N}_{13}$ , 98%)	10 µg/mL in methanol: water (1:1)	1.2 mL
ULM-10341	Microcystin-RR (unlabeled)	10 µg/mL in methanol: water (1:1)	1.2 mL
NLM-10343	Microcystin-YR ( $^{15}\text{N}_{10}$ , 98%)	10 µg/mL in methanol: water (1:1)	1.2 mL
ULM-10344	Microcystin-YR (unlabeled)	10 µg/mL in methanol: water (1:1)	1.2 mL
DLM-2130	<i>N</i> -Nitrosodimethylamine ( $\text{D}_6$ , 98%)	1 mg/mL in methylene chloride- $\text{D}_2$	1 mL
CDLM-7279	<i>N</i> -Nitrosodimethylamine ( $^{13}\text{C}_2$ , 99%; $\text{D}_6$ , 98%)	1 mg/mL in methylene chloride- $\text{D}_2$	1 mL
ULM-9042	<i>N</i> -Nitrosodimethylamine (unlabeled)	1 mg/mL in methylene chloride- $\text{D}_2$	1 mL
OLM-7310	Perchloric acid, sodium salt ( $^{18}\text{O}_4$ , >90%)	100 µg/mL in water	1.2 mL
ULM-7312	Perchloric acid, sodium salt (unlabeled)	100 µg/mL in water	1.2 mL
DLM-1258	L-Phenylalanine (ring- $\text{D}_5$ , 98%)	1000 µg/mL in methanol: water (1:1)	1.2 mL
ULM-8205	L-Phenylalanine (unlabeled)	1000 µg/mL in methanol: water (1:1)	1.2 mL
CLM-3733	<i>o</i> -Phenylphenol (phenyl- $^{13}\text{C}_6$ , 99%)	100 µg/ml in nonane	1.2 mL
ULM-7396	<i>o</i> -Phenylphenol (unlabeled)	100 µg/ml in nonane	1.2 mL
CLM-3748	<i>p</i> -Phenylphenol (phenyl- $^{13}\text{C}_6$ , 99%) CP 96%	100 µg/mL in nonane	1.2 mL
OLM-10485	Potassium chlorate ( $^{18}\text{O}_3$ , 98%) CP 90-95%	100 µg/mL in $^{18}\text{O}$ water	1.2 mL
ULM-10486	Potassium chlorate (unlabeled)	100 µg/mL in $^{18}\text{O}$ water	1.2 mL
DLM-1158	Quinoline ( $\text{D}_7$ , 98%) CP 97%	2 mg/mL in methanol	1.2 mL
ULM-10290	Quinoline (unlabeled)	10 mg/mL in methanol	1.2 mL
OLM-8283	Potassium bromate ( $^{18}\text{O}_3$ , 98%) CP 90-95%	100 µg/mL in $^{18}\text{O}$ water	1.2 mL
ULM-8451	Potassium bromate (unlabeled)	100 µg/mL in water	1.2 mL
CNLM-7221	Semicarbazide hydrochloride (SEM) ( $^{13}\text{C}$ , 99%; $^{15}\text{N}_2$ , 98%)	100 µg/mL in methanol	1.2 mL
ULM-7187	Semicarbazide hydrochloride (SEM) (unlabeled)	100 µg/mL in methanol	1.2 mL
DLM-3330	<i>o</i> -Toluidine ( $\text{D}_9$ , 98%)	2 mg/mL in methanol	1.2 mL
ULM-10289	<i>o</i> -Toluidine (unlabeled)	10 mg/mL in methanol	1.2 mL
DLM-6083	2,4,6-Trichloroanisole ( $\text{D}_5$ , 98%)	1 mg/mL in methanol-D	1.2 mL
ULM-7999	2,4,6-Trichloroanisole (unlabeled)	1 mg/mL in methanol	1.2 mL
DLM-2080	1,2,3-Trichloropropane ( $\text{D}_5$ , 98%) CP 95%	1 mg/mL in methanol	1.2 mL
ULM-6911	1,2,3-Trichloropropane (unlabeled)	1 mg/mL in methanol	1.2 mL
DLM-10255	Uracil ( $\text{D}_4$ , 98%)	1000 µg/mL in methanol: water (1:1)	1.2 mL
ULM-10256	Uracil (unlabeled)	1000 µg/mL in methanol: water (1:1)	1.2 mL
DLM-4444	Urethane (ethyl carbamate) (ethyl- $\text{D}_5$ , 98%)	neat	0.1 g

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Halogenated and Substituted Benzene, Phenol, and Anisole Standards

Catalog No.	Description	Concentration	Unit Size
CLM-871	Bromobenzene ( $^{13}\text{C}_6$ , 99%)	neat	0.5 g
DLM-398	Bromobenzene (D <sub>5</sub> , 99%)	neat	5 g, 10 g, 25 g
CLM-2268	4-Bromophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-6917	4-Bromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
DLM-263	Chlorobenzene (D <sub>5</sub> , 99%)	2 mg/mL in methanol	1.2 mL
DLM-263	Chlorobenzene (D <sub>5</sub> , 99%)	neat	1 g, 5 g
DLM-1638	2-Chlorophenol (ring-D <sub>4</sub> , 99%)	neat	0.1 g, 0.25 g, 1 g
CLM-1913	4-Chlorophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-7420	4-Chlorophenol (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-9373	2,4-Dibromoanisole (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-9369	2,4-Dibromoanisole (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-1340	1,4-Dibromobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
CLM-1340	1,4-Dibromobenzene ( $^{13}\text{C}_6$ , 99%)	neat	0.1 g
DLM-341	1,4-Dibromobenzene (D <sub>4</sub> , 98%)	neat	5 g
ULM-10506	1,4-Dibromobenzene (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-6058	2,4-Dibromophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-6918	2,4-Dibromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-8007	2,6-Dibromophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-7603	2,6-Dibromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-126	1,2-Dichlorobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in isoctane	1.2 mL
DLM-158	1,2-Dichlorobenzene (D <sub>4</sub> , 99%)	neat	1 g, 5 g
ULM-7415	1,2-Dichlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-4484	1,3-Dichlorobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in isoctane	1.2 mL
DLM-2139	1,3-Dichlorobenzene (D <sub>4</sub> , 98%)	neat	0.1 g
ULM-7431	1,3-Dichlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-1518	1,4-Dichlorobenzene ( $^{13}\text{C}_6$ , 99%)	neat	1 mg
DLM-268	1,4-Dichlorobenzene (D <sub>4</sub> , 98%)	neat	5 g
DLM-1359	2,4-Dichlorophenol (ring-D <sub>3</sub> , 98%)	neat	0.1 g, 0.5 g
DLM-1669	2,4-Dichlorophenol (ring-D <sub>3</sub> , OD, 98%)	neat	0.1 g
ULM-6822	2,4-Dichlorophenol (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-1365	2,5-Dichlorophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-9066	2,5-Dichlorophenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-1921	Hexabromobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-7607	Hexabromobenzene (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-351	Hexachlorobenzene ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in nonane	1.2 mL
CLM-351	Hexachlorobenzene ( $^{13}\text{C}_6$ , 99%)	neat	0.1 g
ULM-6130	Hexachlorobenzene (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-10453	2-Isopropyl-5-methylphenol (isopropyl- $^{13}\text{C}_3$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-10444	2-Isopropyl-5-methylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-10447	4-Isopropyl-3-methylphenol (isopropyl- $^{13}\text{C}_3$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-10445	4-Isopropyl-3-methylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-10448	5-Isopropyl-2-methylphenol (isopropyl- $^{13}\text{C}_3$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-10446	5-Isopropyl-2-methylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-10449	3-Methyl-4-nitrophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-10440	3-Methyl-4-nitrophenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-789	4-Nitrophenol ( $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8892	4-Nitrophenol (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10452	4-t-Octylphenol (ring- $^{13}\text{C}_6$ , 99%)	100 µg/mL in methanol	1.2 mL
ULM-10443	4-t-Octylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-8992	Pentabromoanisole ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-8991	Pentabromoanisole (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-1959	Pentabromophenol ( $^{13}\text{C}_6$ , 99%)	100 µg/mL in toluene	1.2 mL
ULM-6922	Pentabromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL

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## Halogenated and Substituted Benzene, Phenol, and Anisole Standards (continued)

Catalog No.	Description	Concentration	Unit Size
CLM-8003	Pentachloroanisole ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-7605	Pentachloroanisole (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-2050	Pentachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in isoctane	1.2 mL
ULM-7234	Pentachlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-1955	Pentachloronitrobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7597	Pentachloronitrobenzene (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-661	Pentachlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-661	Pentachlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.01 g
ULM-6894	Pentachlorophenol (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-1996	2,3,4,5-Tetrabromophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-6778	2,3,4,5-Tetrabromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-1982	1,2,3,4-Tetrachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in isoctane	1.2 mL
ULM-6195	1,2,3,4-Tetrachlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-585	1,2,4,5-Tetrachlorobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 g, 5 mg
DLM-1177	1,2,4,5-Tetrachlorobenzene (D <sub>2</sub> , 98%)	neat	1 g, 5 g
ULM-7598	1,2,4,5-Tetrachlorobenzene (unlabeled)	100 µg/mL in isoctane	1.2 mL
ULM-2428	2,3,4,5-Tetrachlorophenol (unlabeled)	neat	0.1 g
ULM-2429	2,3,4,6-Tetrachlorophenol (unlabeled)	neat	0.1 g
ULM-2430	2,3,5,6-Tetrachlorophenol (unlabeled)	neat	0.1 g
CLM-9372	2,4,5-Tribromoanisole (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-9367	2,4,5-Tribromoanisole (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-6744	2,4,6-Tribromoanisole (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-9370	2,4,6-Tribromoanisole (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-7488	2,3,4-Tribromophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
CLM-2235	2,3,5-Tribromophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-6919	2,3,5-Tribromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-6151	2,4,5-Tribromophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-6084	2,4,5-Tribromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-6743	2,4,6-Tribromophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
ULM-4210	2,4,6-Tribromophenol (unlabeled)	100 µg/mL in toluene	1.2 mL
CLM-1836	3,4,5-Tribromophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in toluene	1.2 mL
DLM-9198	2,4,6-Trichloroanisole (methyl-D <sub>3</sub> , 99%)	neat	Please inquire
DLM-6083	2,4,6-Trichloroanisole (D <sub>5</sub> , 98%)	1 mg/mL in methanol-D	1.2 mL
DLM-6083	2,4,6-Trichloroanisole (D <sub>5</sub> , 98%)	neat	0.1 g
ULM-7999	2,4,6-Trichloroanisole (unlabeled)	1 mg/mL in methanol	1.2 mL
DLM-1972	1,2,3-Trichlorobenzene (D <sub>3</sub> , 98%)	neat	0.1 g
DLM-1178	1,2,4-Trichlorobenzene (D <sub>3</sub> , 98%)	neat	0.1 g, 1 g, 5 g
DLM-799	1,3,5-Trichlorobenzene (D <sub>3</sub> , 98%)	neat	1 g
CLM-513	2,4,5-Trichlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1 mL
CLM-513-SI	2,4,5-Trichlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in isoctane	1.2 mL
DLM-2143	2,4,5-Trichlorophenol (ring-D <sub>2</sub> , 98%)	neat	0.1 g
ULM-7525	2,4,5-Trichlorophenol (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-7525-SI	2,4,5-Trichlorophenol (unlabeled)	100 µg/mL in isoctane	1.2 mL
CLM-1804	2,4,6-Trichlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
CLM-1804-SI	2,4,6-Trichlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in isoctane	1.2 mL
DLM-3093	2,4,6-Trichlorophenol (ring-D <sub>2</sub> , 98%)	neat	0.01 g, 0.1 g
ULM-7600	2,4,6-Trichlorophenol (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-7600-SI	2,4,6-Trichlorophenol (unlabeled)	100 µg/mL in isoctane	1.2 mL

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## Industrial Chemical Standards

Catalog No.	Description	Concentration	Unit Size
CLM-4674	n-Butylbenzene (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4695	1,2-Dibromo-3-chloropropane ( <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1.2 mL
CLM-6144	1,1-Dichloroethylene (random- <sup>13</sup> C, 99%)	100 µg/mL in methanol (stabilized with hydroquinone)	1.2 mL
ULM-7214	1,1-Dichloroethylene (unlabeled)	100 µg/mL in methanol (stabilized with hydroquinone)	1.2 mL
CLM-6145	1,2-Dichloroethylene ( <sup>13</sup> C <sub>1</sub> , 99%) (cis/trans mix)	100 µg/mL in methanol (stabilized with hydroquinone)	1.2 mL
ULM-7215	1,2-Dichloroethylene (unlabeled) (cis/trans mix)	100 µg/mL in methanol (stabilized with hydroquinone)	1.2 mL
CLM-1305	2,4-Dichlorophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-3374	Epichlorohydrin ( <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
DLM-1008	Epichlorohydrin (D <sub>5</sub> , 98%)	neat	1 g
ULM-7403	Epichlorohydrin (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-8008	Hexachlorophene ( <sup>13</sup> C <sub>13</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8009	Hexachlorophene (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-4745	4-Hydroxybenzoic acid (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8251	4-Hydroxybenzoic acid (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8792	Sodium bis(2-ethylhexyl) sulfosuccinate (DOSS) (fumaric acid- <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-8807	Sodium bis(2-ethylhexyl) sulfosuccinate (DOSS) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-8006	Tetrachlorobisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-7606	Tetrachlorobisphenol A (unlabeled)	50 µg/mL in methanol	1.2 mL
DLM-9612	Tetradecyl (tri-n-butyl) phosphonium bromide (D <sub>29</sub> , 98%)	100 µg/mL in acetone:water (7.5:2.5)	1.2 mL
ULM-9609	Tetradecyl (tri-n-butyl) phosphonium chloride (unlabeled)	100 µg/mL in acetone:water (7.5:2.5)	1.2 mL
DLM-7136	Tributyltin chloride (D <sub>27</sub> , 98%)	100 µg/mL in methylene chloride-D <sub>2</sub>	1.2 mL
ULM-8061	Tributyltin chloride (unlabeled) CP 97%	100 µg/mL in methylene chloride	1.2 mL
CLM-6185	1,1,1-Trichloroethane (2- <sup>13</sup> C, 99%)	100 µg/mL in methanol	1.2 mL
DLM-2080	1,2,3-Trichloropropane (D <sub>5</sub> , 98%) CP 95%	100 µg/mL in methanol	1.2 mL
ULM-6911	1,2,3-Trichloropropane (unlabeled)	1 mg/mL in methanol	1.2 mL
DLM-167	Vinyl chloride (D <sub>3</sub> , 98%)	50 µg/mL in methanol-OD	1.2 mL
ULM-8224	Vinyl chloride (unlabeled)	50 µg/mL in methanol	1.2 mL

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## Nitrosamine Standards

Catalog No.	Description	Concentration	Unit Size
DLM-7779-S	<i>N</i> -Nitrodimethylamine ( $D_6$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1 mL
ULM-7780-S	<i>N</i> -Nitrodimethylamine (unlabeled)	1 mg/mL in methylene chloride	1 mL
DLM-7982-S	<i>N</i> -Nitrosodiethylamine ( $D_{10}$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1 mL
ULM-7984	<i>N</i> -Nitrosodiethylamine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL
DLM-2130-S	<i>N</i> -Nitrosodimethylamine ( $D_6$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1 mL
NLM-7647-S	<i>N</i> -Nitrosodimethylamine ( $^{15}N_2$ , 98%)	1 mg/mL in methylene chloride	1 mL
CDLM-7279-S	<i>N</i> -Nitrosodimethylamine ( $^{13}C_2$ , 99%; $D_6$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1 mL
ULM-9042-S	<i>N</i> -Nitrosodimethylamine (unlabeled)	1 mg/mL in methylene chloride	1 mL
DLM-3098-S	<i>N</i> -Nitrosodiphenylamine (2,2',4,4',6,6'- $D_6$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1 mL
ULM-7219	<i>N</i> -Nitrosodiphenylamine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL
DLM-2131-S	<i>N</i> -Nitroso-di- <i>n</i> -propylamine ( $D_{14}$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1 mL
ULM-6637-S	<i>N</i> -Nitroso-di- <i>n</i> -propylamine (unlabeled)	1 mg/mL in methylene chloride	1 mL
DLM-8254	<i>N</i> -Nitrosomorpholine ( $D_8$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1.2 mL
ULM-8255	<i>N</i> -Nitrosomorpholine (unlabeled) CP 96%	1 mg/mL in methylene chloride	1.2 mL
DLM-8252	<i>N</i> -Nitrosopyrrolidine ( $D_8$ , 98%)	1 mg/mL in methylene chloride- $D_2$	1.2 mL
ULM-8253	<i>N</i> -Nitrosopyrrolidine (unlabeled)	1 mg/mL in methylene chloride	1.2 mL

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## Nonylphenol, Nonylphenol Ethoxylate, and Nonylphenol Carboxylate Standards

Catalog No.	Description	Concentration	Unit Size
ULM-6560	p-Nonylphenol – technical grade (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4306	p-n-Nonylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4306-M	p-n-Nonylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-4559	p-n-Nonylphenol (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4559-M	p-n-Nonylphenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-4307	p-n-Nonylphenol diethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4307-M	p-n-Nonylphenol diethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-4521	p-n-Nonylphenol diethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4521-M	p-n-Nonylphenol diethoxylate (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-4521-SA-5X	p-n-Nonylphenol diethoxylate (unlabeled)	500 µg/mL in acetonitrile	1.2 mL
ULM-7147	Nonylphenol diethoxylate-branched isomers (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4512	p-n-Nonylphenol monoethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
CLM-4512-M	p-n-Nonylphenol monoethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-4520	p-n-Nonylphenol monoethoxylate (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4520-M	p-n-Nonylphenol monoethoxylate (unlabeled)	100 µg/mL in methanol	1.2 mL
ULM-4520-SA-5X	p-n-Nonylphenol monoethoxylate (unlabeled)	500 µg/mL in acetonitrile	1.2 mL
ULM-7146	Nonylphenol monoethoxylate-branched isomers (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4516	p-n-Nonylphenol triethoxylate (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 90%	100 µg/mL in nonane	1.2 mL
ES-4157	p-n-Nonylphenol + mono-/di-/tri-ethoxylates (set of individual standards) 1 ampoule each of CLM-4306-1.2, CLM-4512-1.2, CLM-4307-1.2 and CLM-4516-1.2	100 µg/mL in nonane	Set of 4 × 1.2 mL
ULM-4688	Nonylphenoxyacetic acid – ring/chain isomers (unlabeled)	100 µg/mL in nonane	1.2 mL
ULM-4690	p-n-Nonylphenoxyethoxyacetic acid (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-8356	4-(1,3-Dimethyl-1-ethylpentyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-8360	4-(1,3-Dimethyl-1-ethylpentyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-8357	4-(1,4-Dimethyl-1-ethylpentyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-8361	4-(1,4-Dimethyl-1-ethylpentyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-8359	4-(1-Ethyl-1-methylhexyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-8363	4-(1-Ethyl-1-methylhexyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-8358	4-(1,1,5-Trimethylhexyl) phenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-8362	4-(1,1,5-Trimethylhexyl) phenol (unlabeled)	100 µg/mL in methanol	1.2 mL

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## Paraben Standards

Catalog No.	Description	Concentration	Unit Size
CLM-9849	Benzyl paraben (benzyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9850	Benzyl paraben (benzyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8285	n-Butyl paraben (n-butyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8287	n-Butyl paraben (n-butyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9761	Ethyl paraben (ethyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9760	Ethyl paraben (ethyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10451	n-Heptyl paraben (n-heptyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-10442	n-Heptyl paraben (n-heptyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9847	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9848	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9845	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9846	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8249	Methyl paraben (methyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8250	Methyl paraben (methyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10450	n-Pentyl paraben (n-pentyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-10441	n-Pentyl paraben (n-pentyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9763	n-Propyl paraben (n-propyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9762	n-Propyl paraben (n-propyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL

Catalog No.	Description	Unit Size
ES-5600	JECS Phenol/Paraben Clean-Up Standard ( <sup>13</sup> C, 99%)	1.2 mL
Concentration ( $\mu$ g/mL in methanol)		
Benzyl paraben (benzyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
Bisphenol A (ring- <sup>13</sup> C <sub>12</sub> , 99%)	10	
Bisphenol S (ring- <sup>13</sup> C <sub>12</sub> , 99%)	10	
Bisphenol F (ring- <sup>13</sup> C <sub>12</sub> , 99%)	10	
Bisphenol AF (ring- <sup>13</sup> C <sub>12</sub> , 99%)	10	
n-Butyl paraben (n-butyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
Ethyl paraben (ethyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
n-Heptyl paraben (n-heptyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
Isobutyl paraben (isobutyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
2-Isopropyl-5-methylphenol (isopropyl- <sup>13</sup> C <sub>3</sub> , 99%)	10	
4-Isopropyl-3-methylphenol (4-isopropyl- <sup>13</sup> C <sub>3</sub> , 99%)	10	
5-Isopropyl-2-methylphenol (isopropyl- <sup>13</sup> C <sub>3</sub> , 99%)	10	
Isopropyl paraben (isopropyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
3-Methyl-4-nitrophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	10	
Methyl paraben (methyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
4-Nitrophenol ( <sup>13</sup> C <sub>6</sub> , 99%)	10	
p-n-Nonylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
4-t-Octylphenol (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
Oxybenzone (phenyl- <sup>13</sup> C <sub>6</sub> , 99%)	10	
n-Pentyl paraben (n-pentyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
n-Propyl paraben (n-propyl 4-hydroxybenzoate) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	10	
Triclocarban (3,4,4'-trichlorocarbanilide) (4'-chlorophenyl- <sup>13</sup> C <sub>6</sub> , 99%)	10	
Triclosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) ( <sup>13</sup> C <sub>12</sub> , 99%)	10	

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

Catalog No.	Description	Unit Size
ES-5599	JECS Phenol/Paraben Native Standard (unlabeled)	1.2 mL
		Concentration ( $\mu$ g/mL in methanol)
Benzyl paraben (benzyl 4-hydroxybenzoate)	10	
Bisphenol A	10	
Bisphenol S	10	
Bisphenol F	10	
Bisphenol AF	10	
<i>n</i> -Butyl paraben ( <i>n</i> -butyl 4-hydroxybenzoate)	10	
Ethyl paraben (ethyl 4-hydroxybenzoate)	10	
<i>n</i> -Heptyl paraben ( <i>n</i> -heptyl 4-hydroxybenzoate)	10	
Isobutyl paraben (isobutyl 4-hydroxybenzoate)	10	
2-Isopropyl-5-methylphenol	10	
4-Isopropyl-3-methylphenol	10	
5-Isopropyl-2-methylphenol	10	
Isopropyl paraben (isopropyl 4-hydroxybenzoate)	10	
3-Methyl-4-nitrophenol	10	
Methyl paraben (methyl 4-hydroxybenzoate)	10	
4-Nitrophenol	10	
<i>p</i> - <i>n</i> -Nonylphenol	10	
4- <i>t</i> -Octylphenol	10	
Oxybenzone	10	
<i>n</i> -Pentyl paraben ( <i>n</i> -pentyl 4-hydroxybenzoate)	10	
<i>n</i> -Propyl paraben ( <i>n</i> -propyl 4-hydroxybenzoate)	10	
Triclocarban (3,4,4'-trichlorocarbanilide)	10	
Triclosan (2',4,4'-trichloro-2-hydroxydiphenyl ether)	10	

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Perflourinated Standards

Catalog No.	Description	Concentration	Unit Size
ULM-8097	Perfluorobutyric acid (PFBA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9515	Perfluoropentanoic acid (PFPA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8340	Perfluorohexanoic acid (PFHxA), sodium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8342	Perfluorohexanoic acid (PFHxA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10624	Perfluoroheptanoic acid (PFHpA), sodium salt (heptanoyl- <sup>13</sup> C <sub>7</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-9516	Perfluoroheptanoic acid (PFHpA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8005	Perfluorooctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-7451	Perfluorooctanoic acid (PFOA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8060	Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8066	Perfluorononanoic acid (PFNA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8172	Perfluorodecanoic acid (PFDA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8067	Perfluorodecanoic acid (PFDA) (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8789	Perfluoroundecanoic acid (PFUA), sodium salt (3,4,5,6,7,8,9,10,11- <sup>13</sup> C <sub>9</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-8084	Perfluoroundecanoic acid (PFUA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-10593	Perfluorododecanoic acid (PFDoA), sodium salt (dodecanoyl- <sup>13</sup> C <sub>12</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-10594	Perfluorododecanoic acid (PFDoA), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-8068	Perfluorododecanoic acid (PFDoA) (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9955	Perfluorotridecanoic acid (PFTrDA) (unlabeled) CP 97%	50 µg/mL in methanol	1.2 mL
ULM-9956	Perfluorotetradecanoic acid (PFTeDA) (unlabeled) CP 96%	50 µg/mL in methanol	1.2 mL

## Perfluoroalkyl Sulfonates (PFAS)

ULM-9521	Perfluorobutanesulfonate (PFBs), potassium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9520	Perfluoropentanesulfonate (PFPeS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-9526	Perfluorohexanesulfonate (PFHxS), potassium salt ( <sup>13</sup> C <sub>6</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-9524	Perfluorohexanesulfonate (PFHxS), potassium salt (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL
ULM-9531	Perfluoroheptanesulfonate (PFHpS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CLM-8505	Perfluorooctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-9001	Perfluorooctanesulfonate (PFOS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-10655	Perfluorooctanesulfonate (PFOS) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL
ULM-9530	Perfluorononanesulfonate (PFNS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
ULM-9527	Perfluorodecanesulfonate (PFDS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL

## Fluorotelomer Sulfonates (FTS)

CDLM-10753	1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10757	1H,1H,2H,2H-Perfluorohexanesulfonate (4:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CDLM-10752	1H,1H,2H,2H-Perfluoroctanesulfonate (6:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10756	1H,1H,2H,2H-Perfluoroctanesulfonate (6:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CDLM-10751	1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10755	1H,1H,2H,2H-Perfluorodecanesulfonate (8:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL
CDLM-10750	1H,1H,2H,2H-Perfluorododecanesulfonate (10:2 FTS), sodium salt ( <sup>13</sup> C <sub>2</sub> , 99%; D <sub>4</sub> , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10754	1H,1H,2H,2H-Perfluorododecanesulfonate (10:2 FTS), sodium salt (unlabeled)	50 µg/mL in methanol	1.2 mL

## Perfluorooctanesulfonamidoacetic Acids (FOSAA)

DLM-10663	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (N-methyl-D <sub>3</sub> , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10656	N-Methylperfluorooctanesulfonamidoacetic acid (N-MeFOSAA) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL
DLM-10664	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (N-methyl-D <sub>3</sub> , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10657	N-Ethylperfluorooctanesulfonamidoacetic acid (N-EtFOSAA) (unlabeled) (mix of isomers)	50 µg/mL in methanol	1.2 mL

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**Perfluoroctanesulfonamides (FOSA)**

Catalog No.	Description	Concentration	Unit Size
DLM-10740	N-Methylperfluoroctanesulfonamide (N-MeFOSA) ( $D_3$ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10779	N-Methylperfluoroctanesulfonamide (N-MeFOSA) (unlabeled)	50 µg/mL in methanol	1.2 mL
DLM-10741	N-Ethylperfluoroctanesulfonamide (N-EtFOSA) ( $D_5$ , 98%)	50 µg/mL in methanol	1.2 mL
ULM-10780	N-Ethylperfluoroctanesulfonamide (N-EtFOSA) (unlabeled)	50 µg/mL in methanol	1.2 mL

**Fluoropolymers**

ULM-10728	GenX (Tetrafluoro-2-(heptafluoropropoxy)propanoic acid (HFPO-DA) (unlabeled)	100 µg/mL in methanol	1.2 mL
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**PFAS Mixture**

ES-5576	Perfluoroalkylsulfonate (PFAS) C <sub>4</sub> -C <sub>10</sub> Native Mixture (unlabeled)	5 µg/mL in methanol	1.2 mL
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**PFCA Mixture**

ES-5587	Perfluoroalkylcarboxylic acid (PFCA) C <sub>4</sub> -C <sub>14</sub> Native Mixture (unlabeled)	2 µg/mL in methanol	1.2 mL
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**PFOS/PFOA Mixtures**

ES-5570	PFOS/PFOA Calibration Series CS1-CS5	5 × 0.25 mL in methanol
ES-5570-CS0.25	PFOS/PFOA Calibration Series CS0.25	0.25 mL in methanol

Concentration (ng/mL)						
<b>Unlabeled</b>	CS0.25*	CS1	CS2	CS3	CS4	CS5
Perfluoroctanoic acid (PFOA)	0.5	2	10	50	200	1000
Perfluoroctanesulfonate (PFOS), sodium salt	0.5	2	10	50	200	1000
<b>Labeled (for extraction)</b>						
Perfluoroctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	50	50	50	50	50	50
Perfluoroctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	50	50	50	50	50	50
<b>Labeled (for injection)</b>						
Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	50	50	50	50	50	50

\*Not included in ES-5570 – available for separate purchase.

ES-5571	PFOS/PFOA Extraction Standard Mixture	3 mL in methanol
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Concentration (ng/mL)	
<b>Labeled</b>	
Perfluoroctanoic acid (PFOA) ( <sup>13</sup> C <sub>8</sub> , 99%)	2000
Perfluoroctanesulfonate (PFOS), sodium salt ( <sup>13</sup> C <sub>8</sub> , 99%)	2000

ES-5572	PFOS/PFOA Injection Standard Mixture	3 mL in methanol
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Concentration (ng/mL)	
<b>Labeled</b>	
Perfluorononanoic acid (PFNA) ( <sup>13</sup> C <sub>9</sub> , 99%)	2000

ES-5573	PFOS/PFOA Native Standard Mixture	1.2 mL in methanol
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Concentration (ng/mL)	
<b>Labeled</b>	
Perfluoroctanoic acid (PFOA)	5000
Perfluoroctanesulfonate (PFOS), sodium salt	5000

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## Personal Care Products

Catalog No.	Description	Concentration	Unit Size
DLM-183	Benzophenone ( $D_{10}$ , 98%)	100 $\mu\text{g/mL}$ in nonane	1.2 mL
ULM-8303	Benzophenone (unlabeled)	100 $\mu\text{g/mL}$ in nonane	1.2 mL
CLM-9437	Decamethylcyclopentasiloxane "D5" (decamethyl- $^{13}\text{C}_{10}$ , 98%)	100 $\mu\text{g/mL}$ in methanol	1.2 mL
ULM-9442	Decamethylcyclopentasiloxane "D5" (unlabeled)	100 $\mu\text{g/mL}$ in methanol	1.2 mL
DLM-4762	<i>N,N</i> -Diethyl- <i>m</i> -toluamide (DEET) (dimethyl- $D_6$ , 98%)	100 $\mu\text{g/mL}$ in methylene chloride	1.2 mL
DLM-4762-D	<i>N,N</i> -Diethyl- <i>m</i> -toluamide (DEET) (dimethyl- $D_6$ , 98%)	100 $\mu\text{g/mL}$ in dioxane	1.2 mL
ULM-7975	<i>N,N</i> -Diethyl- <i>m</i> -toluamide (DEET) (unlabeled)	100 $\mu\text{g/mL}$ in methylene chloride	1.2 mL
ULM-7975-D	<i>N,N</i> -Diethyl- <i>m</i> -toluamide (DEET) (unlabeled)	100 $\mu\text{g/mL}$ in dioxane	1.2 mL
CLM-10232	Dodecamethylcyclohexasiloxane "D6" (methyl- $^{13}\text{C}_6$ , 98%)	100 $\mu\text{g/mL}$ in methanol	1.2 mL
ULM-9443	Dodecamethylcyclohexasiloxane "D6" (unlabeled)	100 $\mu\text{g/mL}$ in methanol	1.2 mL
CLM-9349	4-Dodecylbenzenesulfonic acid, sodium salt (ring- $^{13}\text{C}_6$ , 99%) CP 94%	10 $\mu\text{g/mL}$ in methanol	1.2 mL
ULM-9350	4-Dodecylbenzenesulfonic acid, sodium salt (unlabeled) CP 95%	10 $\mu\text{g/mL}$ in methanol	1.2 mL
CLM-8008	Hexachlorophene ( $^{13}\text{C}_{13}$ , 99%)	50 $\mu\text{g/mL}$ in methanol	1.2 mL
ULM-8009	Hexachlorophene (unlabeled)	50 $\mu\text{g/mL}$ in methanol	1.2 mL
CLM-9542	Hexamethylcyclotrisiloxane "D3" (hexamethyl- $^{13}\text{C}_6$ , 98%)	100 $\mu\text{g/mL}$ in MTBE*	1.2 mL
ULM-9687	Hexamethylcyclotrisiloxane "D3" (unlabeled)	100 $\mu\text{g/mL}$ in MTBE*	1.2 mL
CLM-4745	4-Hydroxybenzoic acid (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8251	4-Hydroxybenzoic acid (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10666	DL-Mandelic acid ( $^{13}\text{C}_8$ , 99%)	Please inquire	
CLM-7885	Methyl tricosan (2,4,4'-trichloro-2'-methoxydiphenyl ether) (ring- $^{13}\text{C}_{12}$ , 99%)	100 $\mu\text{g/mL}$ in nonane	1.2 mL
ULM-7884	Methyl tricosan (2,4,4'-trichloro-2'-methoxydiphenyl ether) (unlabeled)	100 $\mu\text{g/mL}$ in nonane	1.2 mL
CLM-9436-MT	Octamethylcyclotetrasiloxane "D4" (octamethyl- $^{13}\text{C}_8$ , 98%)	100 $\mu\text{g/mL}$ in MTBE*	1.2 mL
ULM-9441-MT	Octamethylcyclotetrasiloxane "D4" (unlabeled)	100 $\mu\text{g/mL}$ in MTBE*	1.2 mL
CLM-9849	Benzyl paraben (benzyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9850	Benzyl paraben (benzyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8285	<i>n</i> -Butyl paraben ( <i>n</i> -butyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8287	<i>n</i> -Butyl paraben ( <i>n</i> -butyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9761	Ethyl paraben (ethyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9760	Ethyl paraben (ethyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10451	<i>n</i> -Heptyl paraben ( <i>n</i> -heptyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-10442	<i>n</i> -Heptyl paraben ( <i>n</i> -heptyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9847	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9848	Isobutyl paraben (isobutyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9845	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9846	Isopropyl paraben (isopropyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8249	Methyl paraben (methyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-8250	Methyl paraben (methyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-10450	<i>n</i> -Pentyl paraben ( <i>n</i> -pentyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-10441	<i>n</i> -Pentyl paraben ( <i>n</i> -pentyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-9763	<i>n</i> -Propyl paraben ( <i>n</i> -propyl 4-hydroxybenzoate) (ring- $^{13}\text{C}_6$ , 99%)	1 mg/mL in methanol	1.2 mL
ULM-9762	<i>n</i> -Propyl paraben ( <i>n</i> -propyl 4-hydroxybenzoate) (unlabeled)	1 mg/mL in methanol	1.2 mL
CLM-8525	Oxybenzone (phenyl- $^{13}\text{C}_6$ , 99%)	100 $\mu\text{g/mL}$ in acetonitrile	1.2 mL
ULM-8531	Oxybenzone (unlabeled)	100 $\mu\text{g/mL}$ in acetonitrile	1.2 mL
CLM-7286	Triclocarban (3,4,4'-trichlorocarbanilide) (4'-chlorophenyl- $^{13}\text{C}_6$ , 99%)	100 $\mu\text{g/mL}$ in acetonitrile	1.2 mL
ULM-7968	Triclocarban (3,4,4'-trichlorocarbanilide) (unlabeled)	100 $\mu\text{g/mL}$ in acetonitrile	1.2 mL
CLM-6779	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) ( $^{13}\text{C}_{12}$ , 99%)	100 $\mu\text{g/mL}$ in nonane	1.2 mL
CLM-6779-MT	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) ( $^{13}\text{C}_{12}$ , 99%)	100 $\mu\text{g/mL}$ in MTBE*	1.2 mL
ULM-6935	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) (unlabeled)	100 $\mu\text{g/mL}$ in nonane	1.2 mL
ULM-6935-MT	Tricosan (2',4,4'-trichloro-2-hydroxydiphenyl ether) (unlabeled)	100 $\mu\text{g/mL}$ in MTBE*	1.2 mL

\*MTBE: methyl tert-butyl ether

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
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## Phthalate and Phthalate Metabolite Standards

Catalog No.	Description	Concentration	Unit Size
CLM-4675	Bis(2-ethylhexyl) adipate (adipate- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-6566	Bis(2-ethylhexyl) adipate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-10319	1,2,4-Benzenetricarboxylic acid, 1,2-bis(2-ethylhexyl) ester ( <sup>13</sup> C <sub>8</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10320	1,2,4-Benzenetricarboxylic acid, 1,2-bis(2-ethylhexyl) ester (unlabeled) (5% 2,4-isomer)	100 µg/mL in MTBE*	1.2 mL
CLM-10315	1,2,4-Benzenetricarboxylic acid, 1,4-bis(2-ethylhexyl) ester ( <sup>13</sup> C <sub>8</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10316	1,2,4-Benzenetricarboxylic acid, 1,4-bis(2-ethylhexyl) ester (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10317	1,2,4-Benzenetricarboxylic acid, 2,4-bis(2-ethylhexyl) ester ( <sup>13</sup> C <sub>8</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10318	1,2,4-Benzenetricarboxylic acid, 2,4-bis(2-ethylhexyl) ester (unlabeled)	100 µg/mL in MTBE*	1.2 mL
DLM-1369	Benzyl butyl phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-1369	Benzyl butyl phthalate (ring-D <sub>4</sub> , 98%)	neat	0.1 g
ULM-7551	Benzyl butyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-10592	Cyclohexane-1,2-dicarboxylic acid, di-(4-methyoctyl) ester (DINCH) ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10591	Cyclohexane-1,2-dicarboxylic acid, di-(4-methyoctyl) ester (DINCH) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
ULM-10302	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyl-7-oxooctyl) ester (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10299	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyoctyl) ester (MINCH) ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10300	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyoctyl) ester (MINCH) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10303	Cyclohexane-1,2-dicarboxylic acid, mono-(7-carboxy-4-methylheptyl) ester ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10304	Cyclohexane-1,2-dicarboxylic acid, mono-(7-carboxy-4-methylheptyl) ester (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10202	Cyclohexane-1,2-dicarboxylic acid, mono-(7-hydroxy-4-methyoctyl) ester ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10203	Cyclohexane-1,2-dicarboxylic acid, mono-(7-hydroxy-4-methyoctyl) ester (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10301	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyl-7-oxooctyl) ester ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10302	Cyclohexane-1,2-dicarboxylic acid, mono-(4-methyl-7-oxooctyl) ester (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-6238-MT	Bis(2-ethylhexyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
DLM-1368	Bis(2-ethylhexyl)phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-1368	Bis(2-ethylhexyl)phthalate (ring-D <sub>4</sub> , 98%)	neat	0.1 g, 0.25 g
ULM-6241	Bis(2-ethylhexyl)phthalate (unlabeled)	1000 µg/mL in nonane	1.2 mL
ULM-9767	Bis(7-methyoctyl)phthalate (unlabeled)	neat	Please inquire
CLM-4670	Dicyclohexyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8785	Dicyclohexyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1629	Diethyl phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-1629	Diethyl phthalate (ring-D <sub>4</sub> , 98%)	neat	0.1 g, 0.25 g
ULM-6174	Diethyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1366	Dimethyl phthalate (ring-D <sub>4</sub> , 98%)	100 ± 10 µg/mL in nonane	1.2 mL
DLM-1366	Dimethyl phthalate (ring-D <sub>4</sub> , 98%)	neat	0.1 g
ULM-6783	Dimethyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1367	Di-n-butyl phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-1367	Di-n-butyl phthalate (ring-D <sub>4</sub> , 98%)	neat	0.1 g, 0.25 g
ULM-7466	Di-n-butyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4669	Di-n-hexyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7434	Di-n-hexyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
DLM-1630	Di-n-octyl phthalate (ring-D <sub>4</sub> , 98%)	100 µg/mL in nonane	1.2 mL
DLM-1630	Di-n-octyl phthalate (ring-D <sub>4</sub> , 98%)	neat	0.1 g
ULM-6129	Di-n-octyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4668	Di-n-pentyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-7433	Di-n-pentyl phthalate (unlabeled)	100 µg/mL in nonane	1.2 mL
CLM-4671	Di-n-propyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	Please inquire
ULM-4652-MT	Mono(3,7-dimethyl-1-octyl phthalate) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-4591-MT	Monobenzyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-6149-MT	Monobenzyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-4592-MT	Monocyclohexyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-7394-MT	Monocyclohexyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-4590-MT	Mono-n-butyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-6148-MT	Mono-n-butyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL

\*MTBE: methyl tert-butyl ether

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Phthalate and Phthalate Metabolite Standards (continued)

Catalog No.	Description	Concentration	Unit Size
CLM-4589-MT	Mono- <i>n</i> -octyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-4593-MT	Mono- <i>n</i> -octyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10187	Mono- <i>n</i> -pentyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-7393-MT	Mono- <i>n</i> -pentyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-8232-MT	Mono-[2-(carboxymethyl) hexyl]phthalate (DEHP Metabolite IV) ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-8233-MT	Mono-[2-(carboxymethyl) hexyl]phthalate (DEHP Metabolite IV) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-8148-MT	Mono-(2-ethyl-5-carboxypentyl)phthalate (DEHP Metabolite V) ( <sup>13</sup> C <sub>4</sub> , 99%) CP 90%	100 µg/mL in MTBE*	1.2 mL
ULM-8149-MT	Mono-(2-ethyl-5-carboxypentyl)phthalate (DEHP Metabolite V) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-6641-MT	Mono-(2-ethyl-5-hydroxyhexyl)phthalate (DEHP Metabolite IX) ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-4662-MT	Mono-(2-ethyl-5-hydroxyhexyl)phthalate (DEHP Metabolite IX) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-6640-MT	Mono-(2-ethyl-5-oxohexyl)phthalate (DEHP Metabolite VI) ( <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-4663-MT	Mono-(2-ethyl-5-oxohexyl)phthalate (DEHP Metabolite VI) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-4584-MT	Mono-2-ethylhexyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-4583-MT	Mono-2-ethylhexyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10200	Mono-2-ethylhexyl terephthalate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10201	Mono-2-ethylhexyl terephthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
ULM-4594	Mono-2-methoxyethyl phthalate (unlabeled)	neat	Please inquire
CLM-6847-MT	Mono-(3-carboxypropyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-6848-MT	Mono-(3-carboxypropyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
ULM-4820	Mono-3-hydroxybutyl phthalate (unlabeled)	neat	Please inquire
CLM-4588-MT	Mono-(3,7-dimethyl-1-octyl) phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
CLM-10192	Mono-(4-methyl-7-carboxyheptyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10193	Mono-(4-methyl-7-carboxyheptyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10196	Mono-(4-methyl-7-carboxyoctyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10197	Mono-(4-methyl-7-carboxyoctyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10188	Mono-(4-methyl-7-hydroxyoctyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10189	Mono-(4-methyl-7-hydroxyoctyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10190	Mono-(4-methyl-7-oxooctyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10191	Mono-(4-methyl-7-oxooctyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10311	Mono-(6-carboxy-2-propylhexyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10312	Mono-(6-carboxy-2-propylhexyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10313	Mono-(6-hydroxy-2-propylheptyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10314	Mono-(6-hydroxy-2-propylheptyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10309	Mono-(6-oxo-2-propylheptyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10310	Mono-(6-oxo-2-propylheptyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10305	Mono-(7-carboxyoctyl)phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-10306	Mono-(7-carboxyoctyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
ULM-10308	Mono-(8-carboxynonyl)phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-6225	Monomethyl isophthalate (ring- <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
ULM-6226	Monomethyl isophthalate (unlabeled)	neat	Please inquire
CLM-4586-MT	Monoethyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%) CP 95%	100 µg/mL in MTBE*	1.2 mL
ULM-4585-MT	Monoethyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-10204	Monoisobutyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-7919-MT	Monoisobutyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-4587-MT	Monoisononyl phthalate (mono-3,5,5-trimethylhexyl phthalate) (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-4651-MT	Monoisononyl phthalate (mono-3,5,5-trimethylhexyl phthalate) (unlabeled)	100 µg/mL in MTBE*	1.2 mL
ULM-7395-MT	Monoisopropyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-6071-MT	Monomethyl phthalate (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-6697-MT	Monomethyl phthalate (unlabeled)	100 µg/mL in MTBE*	1.2 mL
CLM-4323	Phthalic acid (ring-1,2- <sup>13</sup> C <sub>2</sub> , dicarboxyl- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in nonane	1.2 mL
ULM-8301-MT	Phthalic acid (unlabeled)	100 µg/mL in MTBE*	1.2 mL

\*MTBE: methyl tert-butyl ether

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## Prescription and Nonprescription Drugs

Catalog No.	Description	Concentration	Unit Size
CNLM-3726	Acetaminophen (acetyl- <sup>13</sup> C <sub>2</sub> , 99%; <sup>15</sup> N, 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7629	Acetaminophen (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-3008	Amitriptyline-HCl ( <i>N,N</i> -dimethyl-D <sub>6</sub> , 98%)	100 µg/mL in methanol	1.2 mL
ULM-8350	Amitriptyline-HCl (unlabeled)	100 µg/mL in methanol	1.2 mL
CLM-514	Caffeine (trimethyl- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1.2 mL
ULM-7653	Caffeine (unlabeled)	100 µg/mL in methanol	1.2 mL
DLM-2806	Carbamazepine (D <sub>10</sub> , 98%)	100 µg/mL in acetonitrile-D <sub>3</sub>	1.2 mL
ULM-6581	Carbamazepine (unlabeled) CP 97%	100 µg/mL in acetonitrile	1.2 mL
DLM-1287	Clonidine (4,4,5,5-imidazoline-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1.2 mL
ULM-8349	Clonidine (unlabeled)	100 µg/mL in methanol	1.2 mL
C-041	Codeine (D <sub>6</sub> , 98%)	1 mg/mL in methanol	1 mL
C-006	Codeine (unlabeled)	1 mg/mL in methanol	1 mL
DLM-1819	DL-Cotinine (methyl-D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9614	Cotinine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-9614-W	Cotinine (unlabeled)	100 µg/mL in water	1.2 mL
D-902	Diazepam (D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
D-907	Diazepam (unlabeled)	1000 µg/mL in methanol	1 mL
DLM-9974	Diclofenac sodium (D <sub>4</sub> , 98%)	100 µg/mL in methanol	1.2 mL
ULM-9975	Diclofenac sodium (unlabeled)	100 µg/mL in methanol	1.2 mL
CNLM-411	5,5-Diphenylhydantoin (2- <sup>13</sup> C, 99%; 1,3- <sup>15</sup> N <sub>2</sub> , 98%)	100 µg/mL in methanol	1.2 mL
ULM-8533	5,5-Diphenylhydantoin (unlabeled)	100 µg/mL in methanol	1.2 mL
F-919	Fluoxetine oxalate (D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
F-918	Fluoxetine-HCl (unlabeled)	1 mg/mL in methanol (as free base)	1 mL
DLM-8221	Gemfibrozil (2,2-dimethyl-D <sub>6</sub> , 98%)	100 µg/mL in <i>p</i> -dioxane	1.2 mL
ULM-8225	Gemfibrozil (unlabeled)	100 µg/mL in <i>p</i> -dioxane	1.2 mL
CLM-6943	Ibuprofen (propionic- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7275	Ibuprofen (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-3035	Imipramine-HCl (D <sub>4</sub> , 98%) CP 97%	100 µg/mL in methanol	1.2 mL
I-902	Imipramine (unlabeled)	1 mg/mL in methanol	1 mL
L-902	Lorazepam (D <sub>4</sub> , 98%)	100 µg/mL in acetonitrile	1 mL
L-901	Lorazepam (unlabeled)	1 mg/mL in acetonitrile	1 mL
CDLM-7665	DL-Naproxen (O-methyl- <sup>13</sup> C, 99%; O-methyl-D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7709	Naproxen (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CNLM-8223	Nitrofurazone (carbonyl- <sup>13</sup> C, 99%; hydrazine- <sup>15</sup> N <sub>2</sub> , 98%) CP 97%	100 µg/mL in methanol	Please inquire
ULM-8234	Nitrofurazone (unlabeled)	100 µg/mL in methanol	Please inquire
N-922	Norfluoxetine oxalate (D <sub>6</sub> , 98%)	1000 µg/mL in methanol	1 mL
N-923	Norfluoxetine oxalate (unlabeled)	1000 µg/mL in methanol	1 mL
DLM-3039	Phenylbutazone (diphenyl-D <sub>10</sub> , 98%)	neat	0.05 g, 0.1 g, 1 mg
ULM-7378	Phenylbutazone (unlabeled)	neat	1 mg
CLM-7892	Resorcinol ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
CLM-8370	Thiabendazole (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-8371	Thiabendazole (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-6861-MT	Warfarin (phenyl-D <sub>5</sub> , 98%)	100 µg/mL in MTBE*	1.2 mL
ULM-7242-MT	Warfarin (unlabeled)	100 µg/mL in MTBE*	1.2 mL

\*MTBE: methyl *tert*-butyl ether

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## Sex and Steroidal Hormones

Catalog No.	Description	Concentration	Unit Size
DLM-8438	Aldosterone (2,2,4,6,6,17,21,21-D <sub>8</sub> )	neat	1 mg
ULM-9134	Aldosterone (unlabeled) CP 95%	neat	1 mg, 5 mg
ULM-9163	3- $\alpha$ ,5- $\beta$ -Tetrahydroaldosterone (unlabeled)	neat	1 mg
CLM-9135-C	4-Androstene-3,17-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
DLM-8330	4-Androstene-3,17-dione (2,2,4,6,6-D <sub>5</sub> , 98%)	neat	50 mg
ULM-9138	Androsterone glucuronide, sodium salt (unlabeled)	neat	5 mg
DLM-9541	Chenodeoxycholic acid (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%)	neat	10 mg
ULM-9540	Chenodeoxycholic acid (unlabeled)	neat	50 mg
DLM-8276	Cholestenone (2,2,4,6,6-D <sub>5</sub> , 98%)	neat	0.1 g
CLM-804	Cholesterol (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.1 g
CLM-9139-B	Cholesterol (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	50 $\mu$ g/mL in chloroform	1 mL
CLM-9139-C	Cholesterol (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	100 $\mu$ g/mL in chloroform	1 mL
CLM-9587	Cholesterol (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 99%)	100 $\mu$ g/mL in methanol	1.2 mL
DLM-2607	Cholesterol (2,2,3,4,4,6-D <sub>6</sub> , 97-98%)	neat	0.1 g
DLM-3057	Cholesterol (25,26,26,26,27,27,27-D <sub>7</sub> , 98%)	neat	0.01 g
ULM-9140	Cholesterol (unlabeled)	100 $\mu$ g/mL in methanol	1.2 mL
DLM-2611	Cholic acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	50 mg
ULM-9543	Cholic acid (unlabeled)	neat	50 mg
DLM-7347	Corticosterone (2,2,4,6,6,17 $\alpha$ ,21,21-D <sub>8</sub> , 97-98%)	neat	0.01 g
DLM-2057	Cortisol (9,12,12-D <sub>3</sub> , 98%)	neat	0.01 g
DLM-2218	Cortisol (9,11,12,12-D <sub>4</sub> , 98%)	neat	0.1 mg, 0.1 g
ULM-7823	Cortisol (unlabeled)	neat	0.1 mg
DLM-9142-C	Cortisone (2,2,4,6,6,12,12-D <sub>7</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
ULM-9202-C	Cortisone (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
ULM-9202	Cortisone (unlabeled)	neat	1 mg, 5 mg
DLM-8049-C	Dehydroepiandrosterone (DHEA) (2,2,3,4,4,6-D <sub>6</sub> , 99%) CP 97%	100 $\mu$ g/mL in methanol	1 mL
DLM-8049	Dehydroepiandrosterone (DHEA) (2,2,3,4,4,6-D <sub>6</sub> , 99%) CP 97%	neat	5 mg
ULM-9143-C	Dehydroepiandrosterone (DHEA) (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
ULM-9143-D	Dehydroepiandrosterone (DHEA) (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
ULM-9144-C	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
ULM-9144-D	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
DLM-2824	Deoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	10 mg
DLM-9546-C	Deoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
DLM-9546	Deoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	neat	10 mg
ULM-9545	Deoxycholic acid (unlabeled)	neat	50 mg
ULM-9145-C	11-Deoxycortisol (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
ULM-9145-D	11-Deoxycortisol (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
DLM-8305	21-Deoxycortisol (2,2,4,6,6,21,21,21-D <sub>8</sub> , 97%)	neat	0.01 g
DLM-170-D	Diethylstilbestrol ( <i>cis/trans</i> mix) (ring-3,3',5,5'-diethyl-1,1,1',1'-D <sub>8</sub> , 98%)	100 $\mu$ g/mL in dioxane	1.2 mL
ULM-7921-D	Diethylstilbestrol ( <i>cis/trans</i> mix) (unlabeled)	100 $\mu$ g/mL in dioxane	1.2 mL
CLM-9146-C	5- $\alpha$ -Dihydrotestosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	100 $\mu$ g/mL in methanol	1 mL
CLM-9146-D	5- $\alpha$ -Dihydrotestosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	1000 $\mu$ g/mL in methanol	1 mL
CLM-7936-S	DL-Estradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	100 $\mu$ g/mL in methanol	1.2 mL
CLM-7936	DL-Estradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-803	Estradiol (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	100 $\mu$ g/mL in acetonitrile	1.2 mL
DLM-2487-5	Estradiol (2,4,16,16-D <sub>4</sub> , 95-97%)	neat	5 mg
ULM-7449-S	Estradiol (unlabeled)	100 $\mu$ g/mL in acetonitrile	1.2 mL
ULM-7449	Estradiol (unlabeled)	neat	0.1 mg
CLM-9147-C	Estriol (16- $\alpha$ -hydroxyestradiol) (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 $\mu$ g/mL in methanol	1 mL
DLM-8583	Estriol (2,4,16,17-D <sub>4</sub> , 98%) CP 95%	neat	0.1 mg
ULM-8218	Estriol (unlabeled)	neat	0.1 mg
CLM-7935-S	DL-Estrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	100 $\mu$ g/mL in methanol	1.2 mL
CLM-7935	DL-Estrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	0.1 mg

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Catalog No.	Description	Concentration	Unit Size
CLM-8033	DL-Estrone 3-methyl ether (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-673	Estrone (3,4- <sup>13</sup> C <sub>2</sub> , 90%)	100 µg/mL in acetonitrile	1.2 mL
CLM-9148-B	Estrone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in methanol	1 mL
CLM-9148-C	Estrone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1 mL
DLM-3976	Estrone (2,4,16,16-D <sub>4</sub> , 97%)	neat	5 mg
ULM-7212	Estrone (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-4691	17- $\alpha$ -Ethyneestradiol (2,4,16,16-D <sub>4</sub> , 97-98%)	neat	0.01 g
CLM-3375	Ethyneestradiol (20,21- <sup>13</sup> C <sub>2</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7211	Ethyneestradiol (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
DLM-9550	Glycochenodeoxycholic acid (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%) CP 97%	neat	10 mg
DLM-2742	Glycocholic acid (2,2,4,4-D <sub>4</sub> , 98%) (contains ~4% water)	neat	10 mg
ULM-9551	Glycocholic acid (unlabeled)	neat	50 mg
DLM-9554	Glycodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	10 mg
DLM-9553-C	Glycodeoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-9553	Glycodeoxycholic acid (2,2,4,4,11,11-D <sub>6</sub> , 98%)	neat	10 mg
ULM-9552	Glycodeoxycholic acid, sodium salt (unlabeled)	neat	50 mg
DLM-9556	Glycolithocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	10 mg
ULM-9555	Glycolithocholic acid (unlabeled)	neat	50 mg
DLM-9558	Glycoursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	neat	10 mg
ULM-9557	Glycoursodeoxycholic acid (unlabeled)	neat	50 mg
DLM-9150-C	18-Hydroxycorticosterone (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	100 µg/mL in acetonitrile	1 mL
DLM-9150	18-Hydroxycorticosterone (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	neat	1 mg
ULM-9151	18-Hydroxycorticosterone (unlabeled) CP 95%	neat	1 mg
CLM-8012	DL-2-Hydroxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
ULM-8135	2-Hydroxyestradiol (unlabeled)	neat	0.1 mg
CLM-9153-C	16- $\alpha$ -Hydroxyestrone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1 mL
CLM-9153	16- $\alpha$ -Hydroxyestrone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	0.1 mg
CLM-8011	DL-2-Hydroxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-8016	DL-2-Hydroxyestrone-3-methyl ether (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-8013	DL-4-Hydroxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
ULM-8134	2-Hydroxyestrone (unlabeled)	neat	0.1 mg
ULM-8133	2-Hydroxyestrone-3-methyl ether (unlabeled)	neat	0.1 mg
ULM-8261	4-Hydroxyestrone (unlabeled) CP 96%	neat	0.1 mg
CDLM-9154-C	17 $\alpha$ -Hydroxypregnolone (20,21- <sup>13</sup> C <sub>2</sub> , 99%; 16,16-D <sub>2</sub> , 99%)	100 µg/mL in methanol	1 mL
ULM-9155-C	17 $\alpha$ -Hydroxypregnolone (unlabeled)	100 µg/mL in methanol	1 mL
ULM-9155-D	17 $\alpha$ -Hydroxypregnolone (unlabeled)	1000 µg/mL in methanol	1 mL
CLM-9157-C	17 $\alpha$ -Hydroxyprogesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-6598	17 $\alpha$ -Hydroxyprogesterone (2,2,4,6,6,21,21,21-D <sub>8</sub> , 98%)	neat	0.01 g
ULM-9156-C	17 $\alpha$ -Hydroxyprogesterone (unlabeled) CP 95%	100 µg/mL in methanol	1 mL
DLM-9560	Lithocholic acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	50 mg
ULM-9559	Lithocholic acid (unlabeled)	neat	50 mg
CLM-8015	DL-2-Methoxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-8019	DL-4-Methoxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
ULM-8137	2-Methoxyestradiol (unlabeled)	neat	0.1 mg
ULM-8136	4-Methoxyestradiol (unlabeled)	neat	0.1 mg
CLM-8014	DL-2-Methoxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-8017	DL-4-Methoxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
ULM-8263	2-Methoxyestrone (unlabeled)	neat	0.1 mg
ULM-8262	4-Methoxyestrone (unlabeled)	neat	0.1 mg
CLM-2468	Norethindrone (ethynyl- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.01 g
DLM-8609	DL-Normetanephrine-HCl ( $\alpha,\beta,\beta$ -D <sub>3</sub> , 98%)	neat	5 mg, 10 mg

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## Sex and Steroidal Hormones (continued)

Catalog No.	Description	Concentration	Unit Size
DLM-3979	19-Nortestosterone (16,16,17-D <sub>3</sub> , 98%)	100 µg/mL in methanol	1.2 mL
DLM-3979	19-Nortestosterone (16,16,17-D <sub>3</sub> , 98%)	neat	5 mg
ULM-4841	19-Nortestosterone (unlabeled)	100 µg/mL in methanol	1.2 mL
DLM-3754	5-α-Pregnane-3-α-ol-20-one (17,21,21,21-D <sub>4</sub> , 96-98%) CP 95%	neat	0.01 g
DLM-2294	5-β-Pregnane-3-α-ol-20-one (17,21,21,21-D <sub>4</sub> , 96-98%)	neat	0.01 g
DLM-3910	5-α-Pregnane-3,α,21-diol-20-one (17,21,21-D <sub>3</sub> , 95%)	neat	0.01 g
DLM-3816	5-α-Pregnane-3,20-dione (1,2,4,5,6,7-D <sub>6</sub> , 95%)	neat	0.01 g, 0.05 g
CDLM-9158	Pregnenolone (20,21- <sup>13</sup> C <sub>2</sub> , 99%; 16,16-D <sub>2</sub> , 98%)	neat	1 mg
ULM-9159	Pregnenolone (unlabeled)	neat	1 mg
CDLM-9160	Pregnenolone sulfate, sodium salt (20,21- <sup>13</sup> C <sub>2</sub> , 99%; 16,16-D <sub>2</sub> , 98%)	neat	1 mg
ULM-9161	Pregnenolone sulfate, sodium salt (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-457	Progesterone (3,4- <sup>13</sup> C <sub>2</sub> , 90%)	neat	0.01 g
CLM-9162-B	Progesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in acetonitrile	1 mL
CLM-9162-C	Progesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1 mL
CLM-9162	Progesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	1 mg, 5 mg
DLM-7953	Progesterone (2,2,4,6,6,17α,21,21,21-D <sub>9</sub> , 98%)	100 µg/mL in p-dioxane	1.2 mL
ULM-8219	Progesterone (unlabeled)	100 µg/mL in p-dioxane	1.2 mL
CLM-8018	DL-Sodium estrone 3-sulfate (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%) (12-13%-sodium acetate)	neat	0.1 mg
ULM-8132	Sodium estrone 3-sulfate (unlabeled)	neat	0.1 mg
DLM-9562	Taurochenodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%) CP 97%	neat	10 mg
DLM-9563	Taurochenodeoxycholic acid, sodium salt (2,2,3,4,4,6,6,7,8-D <sub>9</sub> , 98%)	neat	5 mg
ULM-9561	Taurochenodeoxycholic acid, sodium salt (unlabeled)	neat	50 mg
DLM-9568	Taurodeoxycholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	neat	10 mg
DLM-9567-C	Taurodeoxycholic acid, sodium salt (2,2,4,4,11,11-D <sub>6</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-9567	Taurodeoxycholic acid, sodium salt (2,2,4,4,11,11-D <sub>6</sub> , 98%)	neat	5 mg
DLM-9570-C	Taurolithocholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-9570	Taurolithocholic acid, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	neat	10 mg
ULM-9569	Taurolithocholic acid, sodium salt (unlabeled)	neat	50 mg
CLM-159	Testosterone (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.01 g
CLM-9164-C	Testosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1 mL
CLM-9164	Testosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	5 mg, 10 mg
DLM-683	Testosterone (1,2-D <sub>2</sub> , 98%)	100 µg/mL in methylene chloride	1.2 mL
DLM-8085	Testosterone (2,2,4,6,6-D <sub>5</sub> , 98%)	100 µg/mL in methylene chloride	1.2 mL
DLM-8085-D	Testosterone (D <sub>5</sub> , 98%)	100 µg/mL in dioxane	1.2 mL
COLM-9061	Testosterone (3,4- <sup>13</sup> C <sub>2</sub> , 99%; <sup>17-18</sup> O, 98%)	100 µg/mL in methylene chloride	1.2 mL
ULM-8081	Testosterone (unlabeled)	100 µg/mL in methylene chloride	1.2 mL
ULM-8081-D	Testosterone (unlabeled)	100 µg/mL in dioxane	1.2 mL
CLM-6725	L-Thyroxine (tyrosine-ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 90%	neat	0.1 mg
CLM-8931	L-Thyroxine (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 97%	neat	0.1 mg
ULM-8184	L-Thyroxine (unlabeled)	neat	0.2 mg
DLM-9574-C	Ursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-9574	Ursodeoxycholic acid (2,2,4,4-D <sub>4</sub> , 98%)	neat	50 mg
ULM-9573	Ursodeoxycholic acid (unlabeled)	neat	50 mg

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## Tobacco-Specific Nitrosamines and Other Tobacco-Related Standards

Catalog No.	Description	Concentration	Unit Size
CLM-6651	Anabasine (2,2',3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7281	Anabasine (unlabeled)	0.1 mg/mL in acetonitrile	1.2 mL
CLM-6652	Anatabine (2,2',3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7282	Anatabine (unlabeled)	0.1 mg/mL in acetonitrile	1.2 mL
CLM-9692	DL-Cotinine (2',3',4'- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	100 µg/mL in water	1.2 mL
DLM-1819	DL-Cotinine (methyl-D <sub>3</sub> , 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9614	Cotinine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-9614-W	Cotinine (unlabeled)	100 µg/mL in water	1.2 mL
CLM-4556	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol (NNAL) (1,2',3',4',5',6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9434	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol (NNAL) (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-9434-20X	4-(Methylnitrosamino)-1-(3-pyridyl)-1-butanol (NNAL) (unlabeled)	2 mg/mL in acetonitrile	1.2 mL
CLM-6023	4-Methylumbelliferon (2,3,4,methyl- <sup>13</sup> C <sub>4</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7309	4-Methylumbelliferon (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-3914	DL-Nicotine (3',4',5'- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9547	Nicotine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-4555	Nicotine-derived nitrosamine ketone (NNK) (1,2',3',4',5',6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane:ethanol (9:1)	1.2 mL
CLM-4555-A	Nicotine-derived nitrosamine ketone (NNK) (1,2',3',4',5',6'- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-8987	Nicotine-derived nitrosamine ketone (NNK) (unlabeled)	100 µg/mL in nonane:ethanol (9:1)	1.2 mL
ULM-8987-20X	Nicotine-derived nitrosamine ketone (NNK) (unlabeled)	2 mg/mL in acetonitrile	1.2 mL
CLM-6705	N'-Nitrosoanabasine (NAB) ( <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7168	N'-Nitrosoanabasine (NAB) (unlabeled)	0.5 mg/mL in acetonitrile	1.2 mL
ULM-7168-4X	N'-Nitrosoanabasine (NAB) (unlabeled)	2 mg/mL in acetonitrile	1.2 mL
CLM-6704	N'-Nitrosoanatabine (NAT) ( <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	100 µg/mL in acetonitrile	1.2 mL
ULM-7207	N'-Nitrosoanatabine (NAT) (unlabeled)	2 mg/mL in acetonitrile	1.2 mL
CLM-4557	N-Nitrosonornicotine (NNN) (2,2',3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in nonane:ethanol (9:1)	1.2 mL
CLM-4557-A	N-Nitrosonornicotine (NNN) (2,2',3,4,5,6- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-9406	N-Nitrosonornicotine (NNN) (unlabeled)	0.1 mg/mL in acetonitrile	1.2 mL
ULM-9406-20X	N-Nitrosonornicotine (NNN) (unlabeled)	2 mg/mL in acetonitrile	1.2 mL
CLM-4896	DL-Norcotinine (3',4',5'- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
CLM-4892-MT	DL-Nornicotine (3',4',5'- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in MTBE*	1.2 mL
ULM-9615	Norcotinine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
ULM-2154-MT	Nornicotine (unlabeled)	100 µg/mL in MTBE*	1.2 mL

\*MTBE: methyl tert-butyl ether

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## Veterinary and Human Antibiotics

Catalog No.	Description	Concentration	Unit Size
CLM-7407	Amoxicillin·3H <sub>2</sub> O (phenyl- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	1 mg
DLM-119	(±)-Chloramphenicol (ring-D <sub>4</sub> , benzyl-D, 98%)	100 µg/mL in acetonitrile	1.2 mL
ULM-6687	(±)-Chloramphenicol (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CNLM-7539	Ciprofloxacin·HCl (2,3,carboxyl- <sup>13</sup> C <sub>3</sub> , 99%; quinoline- <sup>15</sup> N, 98%)	100 µg/mL in methanol	1.2 mL
ULM-7710	Ciprofloxacin·HCl·H <sub>2</sub> O (unlabeled) CP 95%	100 µg/mL in methanol	1.2 mL
CDLM-10030-MT	Erythromycin (N-methyl- <sup>13</sup> C, 99%; D <sub>3</sub> , 98%) CP 97%	100 µg/mL in MTBE*	1.2 mL
ULM-4322-MT	Erythromycin (unlabeled) CP 97%	100 µg/mL in MTBE*	1.2 mL
CLM-3045	Sulfamethazine (phenyl- <sup>13</sup> C <sub>6</sub> , 90%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7220	Sulfamethazine (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-6944	Sulfamethoxazole (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL in acetonitrile	1.2 mL
ULM-7527	Sulfamethoxazole (unlabeled)	100 µg/mL in acetonitrile	1.2 mL
CLM-7988-A	Trimethoprim (pyrimidine-4,5,6- <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in methanol	1.2 mL
ULM-7989-A	Trimethoprim (unlabeled)	50 µg/mL in methanol	1.2 mL

\*MTBE: methyl *tert*-butyl ether

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## Preloaded Resins

Catalog No.	Description	Structure	Unit Size
SRPR-ARG-CN	Synthesis-Ready Preloaded Resin L-Arginine (Pbf) ( $^{13}\text{C}_6$ , 99%; $^{15}\text{N}_4$ , 99%)-2ClTrt Resin		Please inquire
SRPR-LYS-CN	Synthesis-Ready Preloaded Resin L-Lysine (BOC) ( $^{13}\text{C}_6$ , 99%; $^{15}\text{N}_2$ , 99%)-2ClTrt Resin		Please inquire

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## Protein Expression Reagents and Kits

### Bacterial Cell Growth Media

Catalog No.	Description	Unit Size
CGM-1030P-C	Celtone Base Powder ( <sup>13</sup> C, 98%)	0.5 g, 1 g
CGM-1030P-N	Celtone Base Powder ( <sup>15</sup> N, 98%)	0.5 g, 1 g
CGM-1030P-D	Celtone Base Powder (D, 97%)	0.5 g, 1 g
CGM-1030P-CN	Celtone Base Powder ( <sup>13</sup> C, 98%; <sup>15</sup> N, 98%)	0.5 g, 1 g
CGM-1030P-DN	Celtone Base Powder (D, 97%; <sup>15</sup> N, 98%)	0.5 g, 1 g
CGM-1030P-CDN	Celtone Base Powder ( <sup>13</sup> C, 98%; D, 97%; <sup>15</sup> N, 98%)	0.5 g, 1 g
CGM-1030P-U	Celtone Base Powder (unlabeled)	1 g
CGM-1050P-C	Celtone Plus Base Powder (U- <sup>13</sup> C, 97-99%)	1 g, 10 g
CGM-1050P-N	Celtone Plus Base Powder (U- <sup>15</sup> N, 97-99%)	1 g
CGM-1050P-D	Celtone Plus Base Powder (U-D, 97%)	1 g
CGM-1050P-DN	Celtone Plus Base Powder (U-D, 97-99%; U- <sup>15</sup> N, 97-99%)	1 g
CGM-1050P-CDN	Celtone Plus Base Powder (U- <sup>13</sup> C, 97-99%; U-D, 97-99%; U- <sup>15</sup> N, 97-99%)	1 g
CGM-1050P-U	Celtone Plus Base Powder (unlabeled)	1 g
CGM-1040-C	Celtone Complete Medium ( <sup>13</sup> C, 98%)	0.1 L, 1 L
CGM-1040-N	Celtone Complete Medium ( <sup>15</sup> N, 98%)	0.1 L, 1 L
CGM-1040-D	Celtone Complete Medium (D, 97%)	0.1 L, 1 L
CGM-1040-CN	Celtone Complete Medium ( <sup>13</sup> C, 98%; <sup>15</sup> N, 98%)	0.1 L, 1 L
CGM-1040-DN	Celtone Complete Medium (D, 97%; <sup>15</sup> N, 98%)	0.1 L, 1 L
CGM-1040-CDN	Celtone Complete Medium ( <sup>13</sup> C, 98%; D, 97%; <sup>15</sup> N, 98%)	0.1 L, 1 L
CGM-1040-U	Celtone Complete Medium (unlabeled)	0.1 L, 1 L
CGM-1000-C	BioExpress Cell Growth Media (U- <sup>13</sup> C, 98%) 10x concentrate	100 mL kit
CGM-1000-N	BioExpress Cell Growth Media (U- <sup>15</sup> N, 98%) 10x concentrate	100 mL kit
CGM-1000-D	BioExpress Cell Growth Media (U-D, 98%) 10x concentrate	100 mL kit
CGM-1000-CN	BioExpress Cell Growth Media (U- <sup>13</sup> C, 98%; <sup>1</sup> U- <sup>5</sup> N, 98%) 10x concentrate	100 mL kit
CGM-1000-CD	BioExpress Cell Growth Media (U- <sup>13</sup> C, 98%; U-D, 98%) 10x concentrate	100 mL kit
CGM-1000-DN	BioExpress Cell Growth Media (U-D, 98%; U- <sup>15</sup> N, 98%) 10x concentrate	100 mL kit
CGM-1000-CDN	BioExpress Cell Growth Media (U- <sup>13</sup> C, 98%; U-D, 98%, U- <sup>15</sup> N, 98%) 10x concentrate	100 mL kit
CGM-1000-U	BioExpress Cell Growth Media (unlabeled) 10x concentrate	100 mL kit
CGM-1020-SL-C	E. coli-OD2 ( <sup>13</sup> C, 98%)	1 L
CGM-1020-SL-N	E. coli-OD2 ( <sup>15</sup> N, 98%)	1 L
CGM-1020-SL-D	E. coli-OD2 (D, 98%)	1 L
CGM-1020-SL-CN	E. coli-OD2 ( <sup>13</sup> C, 98%; <sup>15</sup> N, 98%)	1 L
CGM-1020-SL-CDN	E. coli-OD2 ( <sup>13</sup> C, 98%; D, 98%; <sup>15</sup> N, 98%)	1 L
CGM-1020-SL-U-S	E. coli-OD2 (unlabeled)	200 mL
CGM-3030-C	Spectra 9 ( <sup>13</sup> C, 98%)	0.5 L, 1 L
CGM-3030-N	Spectra 9 ( <sup>15</sup> N, 98%)	0.5 L, 1 L
CGM-3030-D	Spectra 9 (D, 97%)	0.5 L, 1 L
CGM-3030-CN	Spectra 9 ( <sup>13</sup> C, 98%; <sup>15</sup> N, 98%)	0.5 L, 1 L
CGM-3030-DN	Spectra 9 (D, 97%; <sup>15</sup> N, 98%)	0.5 L, 1 L
CGM-3030-CDN	Spectra 9 ( <sup>13</sup> C, 98%; D, 97%; <sup>15</sup> N, 98%)	0.5 L, 1 L
CGM-3030-U	Spectra 9 (unlabeled)	0.1 L, 1 L

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**Minimal Media Reagents**

Catalog No.	Description	Unit Size
NLM-467	Ammonium chloride ( $^{15}\text{N}$ , 99%)	1 g, 5 g, 10 g, 25 g, 50 g
NLM-713	Ammonium sulfate ( $^{15}\text{N}_2$ , 99%)	1 g, 5 g, 10 g, 25 g, 50 g
DLM-4-99	Deuterium oxide (D, 99%)	1000 g, 5000 g
DLM-4-99.8	Deuterium oxide (D, 99.8%)	1000 g
DLM-4	Deuterium oxide (D, 99.9%)	10 g, 100 g, 1000 g
CLM-1396	D-Glucose ( $^{13}\text{C}_6$ , 99%)	0.1 mg, 0.25 g, 0.5 g, 1 g, 2 g, 5 g, 10 g, 25 g, 50 g
DLM-2062	D-Glucose (1,2,3,4,5,6,6-D <sub>7</sub> , 97-98%)	0.5 g, 1 g, 5 g, 10 g, 20 g
CDLM-3813	D-Glucose (U- $^{13}\text{C}_6$ , 99%; 1,2,3,4,5,6,6-D <sub>7</sub> , 97-98%)	1 g, 2 g, 10 g
CLM-1510	Glycerol ( $^{13}\text{C}_3$ , 99%)	1 g, 5 g
DLM-558	Glycerol (D <sub>8</sub> , 99%)	1 g, 5 g

**Insect Cell Growth Media**

CGM-2000-CN	BioExpress® 2000 (U- $^{13}\text{C}$ , 98%; U- $^{15}\text{N}$ , 98%)	1 kit
CGM-2000-N	BioExpress® 2000 (U- $^{15}\text{N}$ , 98%)	1 kit
CGM-2000-U	BioExpress® 2000 (unlabeled)	1 kit

**Yeast Cell Growth Media**

CGM-4020-SL-C	Yeast-OD2 ( $^{13}\text{C}$ , 98%)	1 L
CGM-4020-SL-N	Yeast-OD2 ( $^{15}\text{N}$ , 98%)	1 L
CGM-4020-SL-CN	Yeast-OD2 ( $^{13}\text{C}$ , 98%; $^{15}\text{N}$ , 98%)	1 L
CGM-4020-SL-U	Yeast-OD2 (unlabeled)	1 L

**Mammalian Cell Growth Media**

CGM-6000-N	BioExpress® 6000 (U- $^{15}\text{N}$ , 98%)	1 L
CGM-6000-CN	BioExpress® 6000 (U- $^{13}\text{C}$ , 98%; U- $^{15}\text{N}$ , 98%)	1 L
CGM-6000-U	BioExpress® 6000 (unlabeled)	1 L

**Kits for Cell-Free Protein Expression**

Catalog No.	Description	Contents	Specifications
CFS-PRK-G24	Protein Research Kit (G)	Premixed transcription and translation reagents for GST-fusion protein expression. Reaction scale is 226 $\mu\text{L}$ .	24 reactions
CFS-PRK-H24	Protein Research Kit (H)	Premixed transcription and translation reagents for His-fusion protein expression. Reaction scale is 226 $\mu\text{L}$ .	24 reactions
CFS-PRK-S24	Protein Research Kit (S)	Premixed transcription and translation reagents for protein expression. Reaction scale is 226 $\mu\text{L}$ .	24 reactions
CFS-TRI-PLE-BD	Proteoliposome BD Expression Kit	WEPRO 7240, transcription buffer LM, NTP mix, SP6 RNA polymerase, RNase inhibitor, creatine kinase, pEU-E01-T1R1 plasmid, SUB-AMIX SGC S1-S4, and asolectin liposome. Reaction scale is 2.5 mL.	6 reactions
CFS-TRI-PLE	Proteoliposome Expression Kit	WEPRO 7240, transcription buffer LM, NTP mix, SP6 RNA polymerase, RNase inhibitor, creatine kinase, pEU-E01-T1R1 plasmid, SUB-AMIX SGC S1-S4, and asolectin liposome. Reaction scale is 4 mL.	6 reactions
CFS-EDX-PLUS	Premium PLUS Expression Kit	Expression vector (pEU-E01-MCS), PCR primer for transcription and translation, positive control, and reaction cups. Reaction scale is 227 $\mu\text{L}$ .	8 reactions
CFS-EDX-PLUS-MS	Premium PLUS Expression Kit for MS	Expression vector (pEU-E01-MCS), PCR primer set (SPU, deSP6E01), transcription premix LM, WEPRO9240 and SUB-AMIX SGC for MS, positive control, and reaction cups. Reaction scale is 227 $\mu\text{L}$ .	16 reactions
CFS-EDX-PLE-PLUS	Proteoliposome Premium PLUS Expression Kit	Expression vector, primers for DNA preparation by PCR, prepared apolectin-liposomes, positive control, and reaction cups. Reaction scale is 226 $\mu\text{L}$ .	8 reactions

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## Steroids and Hormones

Catalog No.	Description	Concentration	Unit Size
DLM-8438	Aldosterone (2,2,4,6,6,17,21,21-D <sub>8</sub> )	neat	1 mg, 2 mg, 5 mg
ULM-9134	Aldosterone (unlabeled) CP 95%	neat	1 mg, 5 mg
CLM-10548	5α-Androstan-3,17-dione (androstenedione) (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	neat	1 mg
DLM-10269	5α-Androstan-3β-ol-17-one (epiandrosterone) (2,2,4,4-D <sub>4</sub> , 98%)	neat	1 mg, 5 mg
ULM-10270	5α-Androstan-3β-ol-17-one (epiandrosterone) (unlabeled)	neat	1 mg
ULM-8794	5α-Androstan-3,17-dione (androstenedione) (unlabeled)	neat	1 mg
ULM-8794-C	5α-Androstan-3,17-dione (androstenedione) (unlabeled)	100 µg/mL in methanol	1 mL
DLM-8750	5β-Androstan-3α-ol-17-one (etiocholanolone) (16,16-D <sub>2</sub> , 98%)	neat	Please inquire
DLM-10008-C	5β-Androstan-3α-ol-17-one (etiocholanolone) (2,2,3,4,4-D <sub>5</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-10008	5β-Androstan-3α-ol-17-one (etiocholanolone) (2,2,3,4,4-D <sub>5</sub> , 98%)	neat	1 mg
ULM-10009-C	5β-Androstan-3α-ol-17-one (etiocholanolone) (unlabeled)	100 µg/mL in methanol	1 mL
ULM-10009	5β-Androstan-3α-ol-17-one (etiocholanolone) (unlabeled)	neat	1 mg
DLM-9769	5α-Androstane-3α,17β-diol (16,16,17-D <sub>3</sub> , 98%) CP 95%	neat	1 mg
DLM-9769-C	5α-Androstane-3α,17β-diol (16,16,17-D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
ULM-9752	5α-Androstane-3α,17β-diol (unlabeled)	neat	1 mg
ULM-9752-C	5α-Androstane-3α,17β-diol (unlabeled)	100 µg/mL in methanol	1 mL
ULM-10732	5α-Androstane-3β,17β-diol (unlabeled)	neat	1 mg
DLM-9787	Androstenediol glucuronide, sodium salt (16,16,17-D <sub>3</sub> , 98%) CP 97%	neat	1 mg
DLM-10396	4-Androsten-11β-ol-3,17-dione (9,11,12,12-D <sub>4</sub> , 98%)	neat	1 mg
DLM-10397	4-Androsten-11β-17β-diol-3-one (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	neat	1 mg
DLM-10401	5-Androsten-3β-17β-diol (16,16,17-D <sub>3</sub> , 98%) CP 95%	neat	1 mg
CLM-9135	4-Androstene-3,17-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	neat	5 mg, 10 mg, 25 mg
CLM-9135-C	4-Androstene-3,17-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
CLM-9135-D	4-Androstene-3,17-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	1000 µg/mL in methanol	1 mL
DLM-8330	4-Androstene-3,17-dione (2,2,4,6,6-D <sub>5</sub> , 98%)	neat	0.05 g, 0.1 g
DLM-7976	4-Androstene-3,17-dione (2,2,4,6,6,16,16-D <sub>7</sub> , 97%)	neat	0.05 g, 0.1 g
ULM-8472	4-Androstene-3,17-dione (unlabeled)	neat	1 mg, 5 mg, 10 mg
ULM-8472-C	4-Androstene-3,17-dione (unlabeled)	100 µg/mL in methanol	1 mL
ULM-8472-D	4-Androstene-3,17-dione (unlabeled)	1000 µg/mL in methanol	1 mL
DLM-10420-C	4-Androstene-6β,17β-diol-3-one (16,16,17-D <sub>3</sub> , 98%) CP 95%	100 µg/mL in methanol	1 mL
DLM-10420	4-Androstene-6β,17β-diol-3-one (16,16,17-D <sub>3</sub> , 98%)	neat	1 mg
DLM-9697	4-Androstene-11β-ol-3,17-dione (2,2,4,6,6,16,16-D <sub>7</sub> , 98%)	neat	Please inquire
DLM-7937	Androsterone (5α-androstan-3α-ol-17-one) (16,16-D <sub>2</sub> , 98%)	neat	Please inquire
DLM-10402	Androsterone (5α-androstan-3α-ol-17-one) (2,2,4,4-D <sub>4</sub> , 98%)	neat	1 mg
DLM-10402-C	Androsterone (5α-androstan-3α-ol-17-one) (2,2,4,4-D <sub>4</sub> , 98%)	100 µg/mL in methanol	1 mL
ULM-10403	Androsterone (5α-androstan-3α-ol-17-one) (unlabeled)	neat	1 mg
ULM-10403-C	Androsterone (5α-androstan-3α-ol-17-one) (unlabeled)	100 µg/mL in methanol	1 mL
DLM-9137	Androsterone glucuronide, sodium salt (2,2,4,4-D <sub>4</sub> , 98%)	neat	1 mg, 5 mg, 10 mg
ULM-9138	Androsterone glucuronide, sodium salt (unlabeled)	neat	5 mg, 10 mg
DLM-4700	Cholestane (3,3-D <sub>2</sub> , 98%)	neat	Please inquire
DLM-8276	Cholestenone (2,2,4,6,6-D <sub>5</sub> , 98%)	neat	0.1 g
CLM-804	Cholesterol (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.1 g
CLM-804-MPT	Cholesterol (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	Please inquire
CLM-9139	Cholesterol (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	2 mg, 5 mg
CLM-9139-B	Cholesterol (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	50 µg/mL in ethanol	1 mL
CLM-9139-C	Cholesterol (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	100 µg/mL in ethanol	1 mL
CLM-9587	Cholesterol (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 99%)	neat	2 mg, 5 mg
DLM-1831	Cholesterol (3-D, 97%)	neat	0.05 g
DLM-7260	Cholesterol (25,26,26,26-D <sub>4</sub> , 98%)	neat	Please inquire
DLM-2607-C	Cholesterol (2,2,3,4,4,6-D <sub>6</sub> , 97-98%) CP 97%	100 µg/mL in chloroform	1 mL
DLM-2607	Cholesterol (2,2,3,4,4,6-D <sub>6</sub> , 97-98%)	neat	0.1 g

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Catalog No.	Description	Concentration	Unit Size
DLM-3057	Cholesterol (25,26,26,26,27,27,27-D <sub>7</sub> , 98%)	neat	0.01 g, 0.1 g
OLM-7695	Cholesterol ( <sup>18</sup> O, 95%)	neat	Please inquire
ULM-9140	Cholesterol (unlabeled) CP 97%	100 µg/mL in methanol	1.2 mL
ULM-9140	Cholesterol (unlabeled)	1000 µg/mL in methanol	1.2 mL
ULM-9140	Cholesterol (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-3361	Cholesterol-3-octanoate (octanoate-1- <sup>13</sup> C, 99%)	neat	1 g
DLM-10416	Cholesterol-3-sulfate, sodium salt (25,26,26,26,27,27,27-D <sub>7</sub> , 98%)	neat	1 mg
DLM-7347	Corticosterone (2,2,4,6,6,17 $\alpha$ ,21,21-D <sub>8</sub> , 97-98%)	neat	0.01 g
ULM-9988-C	Corticosterone (unlabeled)	100 µg/mL in acetonitrile	1 mL
ULM-9988	Corticosterone (unlabeled)	neat	1 mg
CLM-10371-C	Cortisol (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1 mL
DLM-2615	Cortisol (1,2-D <sub>2</sub> , 98%)	neat	Please inquire
DLM-2057	Cortisol (9,12,12-D <sub>3</sub> , 98%)	neat	0.01 g
DLM-2218	Cortisol (9,11,12,12-D <sub>4</sub> , 98%)	neat	0.01 g, 0.1 mg
ULM-9141	Cortisol (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-10536-C	Cortisone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 97%	100 µg/mL in methanol	1 mL
DLM-8863	Cortisone (1,2-D <sub>2</sub> , 98%) CP 95%	neat	Please inquire
DLM-9142-C	Cortisone (2,2,4,6,6,12,12-D <sub>7</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-9976	Cortisone (2,2,4,6,6,9,12,12-D <sub>8</sub> , 98%)	neat	1 mg, 5 mg
ULM-9202-C	Cortisone (unlabeled)	100 µg/mL in methanol	1 mL
ULM-9202	Cortisone (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-10537-C	Cortisone 21-sulfate, sodium salt (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%) CP 95%	100 µg/mL in methanol	1 mL
DLM-4216	7-Dehydrocholesterol (25,26,26,26,27,27,27-D <sub>7</sub> , 98%)	neat	Please inquire
CLM-10549-C	Dehydroepiandrosterone (DHEA) (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1 mL
CLM-10549	Dehydroepiandrosterone (DHEA) (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	1 mg
DLM-7714	Dehydroepiandrosterone (DHEA) (16,16-D <sub>2</sub> , 97%)	neat	1 mL
DLM-8049-C	Dehydroepiandrosterone (DHEA) (2,2,3,4,4,6-D <sub>6</sub> , 97%)	100 µg/mL in methanol	1 mL
DLM-8049	Dehydroepiandrosterone (DHEA) (2,2,3,4,4,6-D <sub>6</sub> , 98%) CP 97%	neat	5 mg
ULM-9143-C	Dehydroepiandrosterone (DHEA) (unlabeled)	100 µg/mL in methanol	1 mL
ULM-9143-D	Dehydroepiandrosterone (DHEA) (unlabeled)	1000 µg/mL in methanol	1 mL
ULM-9143	Dehydroepiandrosterone (DHEA) (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-8701	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (16,16-D <sub>2</sub> , 97%)	neat	Please inquire
DLM-8337	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (2,2,3,4,4,6-D <sub>6</sub> , 95%)	neat	Please inquire
ULM-9144-C	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (unlabeled)	100 µg/mL in methanol	1 mL
ULM-9144-D	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (unlabeled)	1000 µg/mL in methanol	1 mL
ULM-9144	Dehydroepiandrosterone sulfate, sodium salt (DHEAS) (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-10384-C	11-Deoxycortisol (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	100 µg/mL in methanol	1 mL
CLM-10384	11-Deoxycortisol (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	1 mg
DLM-7209	11-Deoxycortisol (21,21-D <sub>2</sub> , 96%)	neat	5 mg, 0.01 g
DLM-8336	11-Deoxycortisol (2,2,4,6,6-D <sub>5</sub> , 98%)	neat	5 mg, 0.01 g
ULM-9145-C	11-Deoxycortisol (unlabeled)	100 µg/mL in methanol	1 mL
ULM-9145-D	11-Deoxycortisol (unlabeled)	1000 µg/mL in methanol	1 mL
ULM-9145	11-Deoxycortisol (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-8305	21-Deoxycortisol (2,2,4,6,6,21,21,21-D <sub>8</sub> , 97%)	neat	0.01 g
ULM-9987-C	21-Deoxycortisol (unlabeled)	100 µg/ml in methanol	1 mL
ULM-9987	21-Deoxycortisol (unlabeled)	neat	1 mg
CLM-10563	1,4-Diaminobenzene ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	Please inquire
DLM-170	Diethylstilbestrol ( <i>cis/trans</i> mix) (ring-3,3',5,5'-diethyl-1,1',1'-D <sub>8</sub> , 98%)	neat	0.05 g, 0.1 g
DLM-3023	Dihydrotestosterone (16,16,17-D <sub>3</sub> , 98%)	neat	Please inquire

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**Steroids and Hormones** (continued)

Catalog No.	Description	Concentration	Unit Size
CLM-9146	5 $\alpha$ -Dihydrotestosterone (2,3,4- $^{13}\text{C}_3$ , 99%) CP 97%	neat	1 mg, 5 mg, 10 mg
CLM-9146-C	5 $\alpha$ -Dihydrotestosterone (2,3,4- $^{13}\text{C}_3$ , 99%)	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
CLM-9146-D	5 $\alpha$ -Dihydrotestosterone (2,3,4- $^{13}\text{C}_3$ , 99%)	1000 $\mu\text{g}/\text{mL}$ in methanol	1 mL
DLM-9041	5 $\alpha$ -Dihydrotestosterone (2,2,4,4-D <sub>4</sub> , 98%) CP 95%	neat	1 mg
ULM-8364	5 $\alpha$ -Dihydrotestosterone (unlabeled)	neat	Please inquire
ULM-8364-C	5 $\alpha$ -Dihydrotestosterone (unlabeled)	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
ULM-8364-D	5 $\alpha$ -Dihydrotestosterone (unlabeled)	1 mg/mL in methanol	1 mL
CLM-9222	L-3,3'-Diiodothyronine (T2) (phenoxy- $^{13}\text{C}_6$ , 99%) CP 97%	neat	1 mg, 5 mg
ULM-9223	L-3,3'-Diiodothyronine (T2) (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-7401	L-Dopa (1- $^{13}\text{C}$ , 99%)	neat	0.1 g
CLM-7768	Epicholesterol (3,4- $^{13}\text{C}_2$ , 99%)	neat	0.1 g
CNLM-7889	DL-Epinephrine (1,2- $^{13}\text{C}_2$ , 99%; $^{15}\text{N}$ , 98%)	neat	0.1 g, 5 mg, 10 mg
DLM-9088	DL-Epinephrine (ring-D <sub>3</sub> , 1,2,2-D <sub>3</sub> , 98%)	neat	Please inquire
CLM-803	Estradiol (3,4- $^{13}\text{C}_2$ , 99%)	neat	Please inquire
DLM-3694	Estradiol (16,16,17-D <sub>3</sub> , 98%) CP 95%	neat	1 mg, 10 mg
DLM-2487	Estradiol (2,4,16,16-D <sub>4</sub> , 95-97%)	neat	5 mg
ULM-7449	Estradiol (unlabeled)	100 $\mu\text{g}/\text{mL}$ in acetonitrile	1.2 mL
CLM-10404-C	Estradiol undecanoate (2,3,4- $^{13}\text{C}_3$ , 98%) CP 95%	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
CLM-10404	Estradiol undecanoate (2,3,4- $^{13}\text{C}_3$ , 98%) CP 95%	neat	1 mg
CLM-9147-C	Estriol (16 $\alpha$ -hydroxyestradiol) (2,3,4- $^{13}\text{C}_3$ , 99%) CP 97%	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
CLM-9147	Estriol (16 $\alpha$ -hydroxyestradiol) (2,3,4- $^{13}\text{C}_3$ , 99%) CP 97%	neat	0.1 g, 0.25 g, 0.5 g
DLM-8586	Estriol (2,4,16-D <sub>3</sub> , 98%) CP 96%	neat	5 mg, 10 mg
DLM-8343	Estriol (2,4,17-D <sub>3</sub> , 98%) CP 96%	neat	Please inquire
CLM-673	Estrone (3,4- $^{13}\text{C}_2$ , 90%)	100 $\mu\text{g}/\text{mL}$ in acetonitrile	1.2 mL
CLM-673	Estrone (3,4- $^{13}\text{C}_2$ , 99%)	neat	Please inquire
CLM-9148-B	Estrone (2,3,4- $^{13}\text{C}_3$ , 99%)	50 $\mu\text{g}/\text{mL}$ in methanol	1 mL
CLM-9148-C	Estrone (2,3,4- $^{13}\text{C}_3$ , 99%)	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
CLM-9148	Estrone (2,3,4- $^{13}\text{C}_3$ , 99%)	neat	1 mg, 5 mg
DLM-3976	Estrone (2,4,16,16-D <sub>4</sub> , 97%)	neat	5 mg
CLM-8033	DL-Estrone 3-methyl ether (13,14,15,16,17,18- $^{13}\text{C}_6$ , 99%)	neat	0.1 mg
ULM-10356	Estrone 3-methyl ether (unlabeled)	neat	0.1 mg
DLM-4691	17 $\alpha$ -Ethynodiol (2,4,16,16-D <sub>4</sub> , 97-98%)	neat	0.01 g
DLM-8646	7 $\beta$ -Hydroxycholesterol (25,26,26,26,27,27,27-D <sub>7</sub> , 98%) CP 97%	neat	Please inquire
ULM-10267	7 $\alpha$ -Hydroxycholesterol (unlabeled)	neat	1 mg
ULM-10268	7 $\beta$ -Hydroxycholesterol (unlabeled)	neat	Please inquire
DLM-9150-C	18-Hydroxycorticosterone (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	100 $\mu\text{g}/\text{mL}$ in acetonitrile	1 mL
DLM-9150	18-Hydroxycorticosterone (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	neat	1 mg
ULM-9151	18-Hydroxycorticosterone (unlabeled) CP 95%	neat	1 mg
DLM-10006-C	18-Hydroxycortisol (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
DLM-10006	18-Hydroxycortisol (9,11,12,12-D <sub>4</sub> , 98%) CP 95%	neat	0.5 mg, 1 mg
ULM-10007-C	18-Hydroxycortisol (unlabeled) CP 97%	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
ULM-10007	18-Hydroxycortisol (unlabeled) CP 95%	neat	1 mg
CLM-8012	DL-2-Hydroxyestradiol (13,14,15,16,17,18- $^{13}\text{C}_6$ , 99%)	neat	0.1 mg
CLM-9153-C	16 $\alpha$ -Hydroxyestrone (2,3,4- $^{13}\text{C}_3$ , 99%)	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
ULM-9152-C	16 $\alpha$ -Hydroxyestrone (unlabeled)	100 $\mu\text{g}/\text{mL}$ in methanol	1 mL
CLM-9153	16 $\alpha$ -Hydroxyestrone (2,3,4- $^{13}\text{C}_3$ , 99%)	neat	0.1 mg, 0.25 mg, 0.5 mg, 1 mg
CLM-8011	DL-2-Hydroxyestrone (13,14,15,16,17,18- $^{13}\text{C}_6$ , 99%)	neat	0.1 mg
CLM-8016	DL-2-Hydroxyestrone-3-methyl ether (13,14,15,16,17,18- $^{13}\text{C}_6$ , 99%)	neat	0.1 mg
CLM-8013	DL-4-Hydroxyestrone (13,14,15,16,17,18- $^{13}\text{C}_6$ , 99%) CP 97%	neat	0.1 mg

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Catalog No.	Description	Concentration	Unit Size
DLM-7206	17 $\alpha$ -Hydroxypregnolone (21,21,21-D <sub>3</sub> , 97%)	neat	Please inquire
CDLM-9154	17 $\alpha$ -Hydroxypregnolone (20,21- <sup>13</sup> C <sub>2</sub> , 98%; 16,16-D <sub>2</sub> , 98%)	neat	1 mg
CDLM-9154-C	17 $\alpha$ -Hydroxypregnolone (20,21- <sup>13</sup> C <sub>2</sub> , 98%; 16,16-D <sub>2</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
CDLM-9154-D	17 $\alpha$ -Hydroxypregnolone (20,21- <sup>13</sup> C <sub>2</sub> , 99%; 16,16-D <sub>2</sub> , 99%)	1000 $\mu$ g/mL in methanol	1 mL
ULM-9155	17 $\alpha$ -Hydroxypregnolone (unlabeled)	neat	Please inquire
ULM-9155-C	17 $\alpha$ -Hydroxypregnolone (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
ULM-9155-D	17 $\alpha$ -Hydroxypregnolone (unlabeled)	1000 $\mu$ g/mL in methanol	1 mL
CLM-9157	17 $\alpha$ -Hydroxyprogesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	neat	1 mg, 5 mg
CLM-9157-C	17 $\alpha$ -Hydroxyprogesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol	1 mL
CLM-9157-D	17 $\alpha$ -Hydroxyprogesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 98%)	1000 $\mu$ g/mL in methanol	1 mL
DLM-6598	17 $\alpha$ -Hydroxyprogesterone (2,2,4,6,6,21,21,21-D <sub>8</sub> , 98%)	neat	0.01 g, 0.05 g
ULM-9156	17 $\alpha$ -Hydroxyprogesterone (unlabeled)	neat	1 mg, 5 mg, 10 mg
ULM-9156-C	17 $\alpha$ -Hydroxyprogesterone (unlabeled) CP 95%	100 $\mu$ g/mL in methanol	1 mL
ULM-9156-D	17 $\alpha$ -Hydroxyprogesterone (unlabeled) CP 95%	1000 $\mu$ g/mL in methanol	1 mL
CLM-10266-C	3-epi-25-Hydroxyvitamin D <sub>3</sub> (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 99%)	100 $\mu$ g/mL in ethanol	1 mL
DLM-8647	7-Ketcholesterol (25,26,26,26,27,27,27-D <sub>7</sub> , 99%)	neat	Please inquire
DLM-10395-C	11-Ketotestosterone (16,16,17-D <sub>3</sub> ) CP 95%	100 $\mu$ g/mL in methanol	1 mL
DLM-10395	11-Ketotestosterone (16,16,17-D <sub>3</sub> ) CP 95%	neat	1 mg
DLM-7101	Melatonin (acetyl-D <sub>3</sub> , 98%)	neat	5 mg, 10 mg
DLM-3560	DL-Metanephrine·HCl ( $\alpha,\beta$ -D <sub>3</sub> , 98%)	neat	Please inquire
CLM-8015	DL-2-Methoxyestradiol (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-8014	DL-2-Methoxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
CLM-8017	DL-4-Methoxyestrone (13,14,15,16,17,18- <sup>13</sup> C <sub>6</sub> , 99%)	neat	0.1 mg
DLM-8820	DL-Norepinephrine·HCl (ring-D <sub>3</sub> ,1,2,2-D <sub>3</sub> , 99%)	neat	5 mg, 10 mg
CLM-2468	Norethindrone (ethynodiol- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.01 g
CLM-9980	Nestorone (16-methylene- <sup>13</sup> C, 20,21- <sup>13</sup> C <sub>2</sub> , 99%) CP 96%	neat	Please inquire
DLM-8609	DL-Normetanephrine·HCl ( $\alpha,\beta$ -D <sub>3</sub> , 98%)	neat	0.01 g, 5 mg
DLM-3979	19-Nortestosterone (16,16,17-D <sub>3</sub> , 98%)	neat	5 mg
DLM-3979	19-Nortestosterone (16,16,17-D <sub>3</sub> , 98%)	100 $\mu$ g/mL in methanol	1.2 mL
DLM-3754	5 $\alpha$ -Pregn-3 $\alpha$ -ol-20-one (17,21,21,21-D <sub>4</sub> , 96-98%) CP >95%	neat	0.01 g
DLM-7492	5 $\alpha$ -Pregn-3 $\beta$ -ol-20-one (17 $\alpha$ ,21,21,21-D <sub>4</sub> , 97%) CP 96%	neat	Please inquire
ULM-8242	5 $\alpha$ -Pregn-3 $\beta$ -ol-20-one (unlabeled)	neat	1 mg
DLM-2294	5 $\beta$ -Pregn-3 $\alpha$ -ol-20-one (17,21,21,21-D <sub>4</sub> , 96-98%)	neat	0.01 g
DLM-8751	5 $\beta$ -Pregn-3 $\alpha$ ,11 $\beta$ ,17 $\alpha$ ,21-tetrol-20-one (9,11 $\alpha$ ,12-D <sub>3</sub> , 95%)	neat	Please inquire
DLM-8753	5 $\beta$ -Pregn-3 $\alpha$ ,17 $\alpha$ ,20-triol (20,21,21,21-D <sub>4</sub> , 98%) mix of 20 $\alpha$ and 20 $\beta$	neat	Please inquire
CLM-10411	5 $\beta$ -Pregnane-3 $\alpha$ -20 $\alpha$ -diol (2,3,4,20,21- <sup>13</sup> C <sub>5</sub> , 99%) CP 95%	neat	1 mg
DLM-10413	5 $\beta$ -Pregnane-3 $\alpha$ -20 $\alpha$ -diol (2,2,3,4,4-D <sub>5</sub> , 98%), 99% CP 95%	neat	1 mg
CLM-10412	5 $\beta$ -Pregnane-3 $\alpha$ -20 $\alpha$ -diol glucuronide (2,3,4,20,21- <sup>13</sup> C <sub>5</sub> , 99%) CP 95%	neat	1 mg
DLM-3910	5 $\alpha$ -Pregnane-3 $\alpha$ ,21-diol-20-one (17,21,21-D <sub>3</sub> , 95%)	neat	0.01 g
ULM-10385	5 $\alpha$ -Pregnane-3 $\alpha$ ,21-diol-20-one (unlabeled)	neat	1 mg
DLM-3816	5 $\alpha$ -Pregnane-3 $\alpha$ ,20-dione (1,2,4,5,6,7-D <sub>6</sub> , 95%)	neat	0.01 g, 0.05 g
DLM-3817	5 $\beta$ -Pregnane-3,20-dione (1,2,4,5,6,7-D <sub>6</sub> , 95%)	neat	Please inquire
DLM-9901	5 $\beta$ -Pregnane-3,20-dione (2,2,4,4,17 $\alpha$ ,21,21,21-D <sub>8</sub> , 98%) CP 97%	neat	Please inquire
CLM-10010-C	4-Pregnen-21-ol-3,20-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 $\mu$ g/mL in methanol	1 mL
CLM-10010	4-Pregnen-21-ol-3,20-dione (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	10 mg
DLM-7228	4-Pregnen-21-ol-3,20-dione (2,2,4,6,6,17,21,21-D <sub>8</sub> , 96%) CP 97%	neat	Please inquire
ULM-10011-C	4-Pregnen-21-ol-3,20-dione (unlabeled)	100 $\mu$ g/mL in methanol	1 mL
ULM-10011	4-Pregnen-21-ol-3,20-dione (unlabeled)	neat	1 mg
DLM-6896	Pregnenolone (17,21,21,21-D <sub>4</sub> , 98%)	neat	0.01 g
CDLM-9158-C	Pregnenolone (20,21- <sup>13</sup> C <sub>2</sub> , 99%; 16,16-D <sub>2</sub> , 98%)	100 $\mu$ g/mL in acetonitrile	1 mL
CDLM-9158	Pregnenolone (20,21- <sup>13</sup> C <sub>2</sub> , 98%; 16,16-D <sub>2</sub> , 98%)	neat	1 mg, 5 mg
ULM-9159	Pregnenolone (unlabeled)	neat	1 mg, 5 mg, 10 mg

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**Steroids and Hormones** (continued)

Catalog No.	Description	Concentration	Unit Size
CDLM-9160	Pregnenolone sulfate, sodium salt (20,21- <sup>13</sup> C <sub>2</sub> , 99%; 16,16-D <sub>2</sub> , 98%)	neat	1 mg, 5 mg
ULM-9161	Pregnenolone sulfate, sodium salt (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-457	Progesterone (3,4- <sup>13</sup> C <sub>2</sub> , 90%)	neat	0.01 g
CLM-9162	Progesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	1 mg, 5 mg
CLM-9162-B	Progesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	50 µg/mL in acetonitrile	1 mL
CLM-9162-C	Progesterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in acetonitrile	1 mL
CLM-10414	Progesterone (2,3,4,20,21- <sup>13</sup> C <sub>5</sub> , 99%)	neat	1 mg
DLM-7953	Progesterone (2,2,4,6,6,17α,21,21,21-D <sub>9</sub> , 98%)	neat	0.01 g
DLM-3627	Prostaglandin A2 (3,3,4,4-D <sub>4</sub> , 98%)	500 µg/mL in methyl acetate	Please inquire
DLM-3728	Prostaglandin E1 (3,3,4,4-D <sub>4</sub> , 98%)	500 µg/mL in methyl acetate	Please inquire
DLM-3628	Prostaglandin E2 (3,3,4,4-D <sub>4</sub> , 98%)	500 µg/mL in methyl acetate	Please inquire
DLM-3592	Prostaglandin E2 (3,3,4,4-D <sub>4</sub> , 98%)	500 µg/mL in methyl acetate	Please inquire
DLM-3558	Prostaglandin F2α (3,3,4,4-D <sub>4</sub> , 98%)	Please inquire	Please inquire
DLM-4200	9α,11α-Prostaglandin F2 (3,3',4,4'-D <sub>4</sub> , 98%)	Please inquire	Please inquire
DLM-7456	Sodium estrone 3-sulfate (2,4,16,16-D <sub>4</sub> , 98%) stabilized with 50% w/w tris	neat	Please inquire
DLM-7457	Sodium 17β-estradiol 3-sulfate (2,4,16,16-D <sub>4</sub> , 98%) stabilized with 50% w/w tris	neat	Please inquire
DLM-9503	Stigmasterol (2,2,3,4,4-D <sub>5</sub> , 98%)	neat	0.01 g
CLM-159	Testosterone (3,4- <sup>13</sup> C <sub>2</sub> , 99%)	neat	0.01 g
CLM-9164	Testosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	neat	5 mg, 10 mg
CLM-9164-C	Testosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	100 µg/mL in methanol	1 mL
CLM-9164-D	Testosterone (2,3,4- <sup>13</sup> C <sub>3</sub> , 99%)	1000 µg/mL in methanol	1 mL
DLM-683	Testosterone (1,2-D <sub>2</sub> , 98%)	neat	0.1 g
DLM-683	Testosterone (1,2-D <sub>2</sub> , 98%)	100 µg/mL in methylene chloride	1.2 mL
DLM-6224-C	Testosterone (16,16,17-D <sub>3</sub> , 98%)	100 µg/mL in methanol	1 mL
DLM-6224	Testosterone (16,16,17-D <sub>3</sub> , 98%)	neat	5 mg
DLM-8085	Testosterone (2,2,4,6,6-D <sub>5</sub> , 98%)	100 µg/mL in methylene chloride	1.2 mL
DLM-8085	Testosterone (2,2,4,6,6-D <sub>5</sub> , 98%)	neat	Please inquire
ULM-8933	Testosterone benzoate (unlabeled)	neat	Please inquire
DLM-8265	Testosterone diacetate (testosterone-D <sub>4</sub> , acetate methyl-D <sub>6</sub> , 98%)	neat	Please inquire
ULM-9163	3α,5β-Tetrahydroaldosterone (unlabeled)	neat	1 mg, 5 mg
CLM-7185-C	3,3',5-Triiodo-L-thyronine-HCl (T3) (ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL 0.1 N NH <sub>3</sub> in methanol	1 mL
CLM-7185	3,3',5-Triiodo-L-thyronine-HCl (ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	1 mg, 5 mg, 0.01 g
CLM-10596	3,3',5-Triiodo-L-thyronine (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 97%	neat	Please inquire
ULM-10573-C	3,3',5-Triiodo-L-thyronine-HCl (T3) (unlabeled)	100 µg/mL 0.1 N NH <sub>3</sub> in methanol	1 mL
ULM-10573	3,3',5-Triiodo-L-thyronine-HCl (T3) (unlabeled) CP 95%	neat	1 mg, 5 mg, 10 mg
CLM-10601-C	Reverse 3,3',5-triiodo-L-thyronine-HCl (rev T3) (diiodophenyl-ring- <sup>13</sup> C <sub>6</sub> , 99%)	100 µg/mL 0.1 N NH <sub>3</sub> in methanol	1 mL
CLM-10601	Reverse 3,3',5-triiodo-L-thyronine-HCl (rev T3) (diiodophenyl-ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	1 mg, 5 mg, 10 mg
ULM-10602-C	Reverse 3,3',5-triiodo-L-thyronine-HCl (rev T3) (unlabeled) CP 95%	100 µg/mL 0.1 N NH <sub>3</sub> in methanol	1 mL
CLM-6725	L-Thyroxine (tyrosine-ring- <sup>13</sup> C <sub>6</sub> , 99%) CP 90%	neat	0.1 mg
CLM-8931	L-Thyroxine (ring- <sup>13</sup> C <sub>12</sub> , 99%) CP 97%	neat	0.1 mg
ULM-8184	L-Thyroxine (unlabeled)	neat	0.2 mg
DLM-10026	Triamcinolone hexacetonide (16,17-isopropylidenedioxy-D <sub>6</sub> , 98%)	neat	Please inquire
DLM-6989	Tryptamine-HCl (α,α,β,β-D <sub>4</sub> , 97%)	neat	Please inquire

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## Vitamins and Their Metabolites

Catalog No.	Description	Concentration	Unit Size
CLM-6126	β-Carotene (10,10',11,11'- <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
CLM-9641	β-Carotene (12,12',13,13',14,14',15,15',20,20'- <sup>13</sup> C <sub>10</sub> , 99%) CP >97%	neat	Please inquire
DLM-3829	β-Carotene (19,19,19,19',19'-D <sub>6</sub> , 98%)	neat	Please inquire
DLM-2439	β-Carotene (10,10',19,19,19,19',19'-D <sub>8</sub> , 97%)	neat	Please inquire
DLM-10279	Coenzyme Q10 (ubiquinone) (dimethoxy-D <sub>6</sub> , methyl-D <sub>3</sub> , 98%) CP 97%	neat	1 mg, 5 mg
ULM-9106-B	1,25-Dihydroxyvitamin D2 (unlabeled) CP 95%	50 µg/mL in ethanol	1 mL
ULM-9106-C	1,25-Dihydroxyvitamin D2 (unlabeled) CP 95%	100 µg/mL in ethanol	1 mL
ULM-9106	1,25-Dihydroxyvitamin D2 (unlabeled) CP 95%	neat	0.1 mg, 1 mg
DLM-9107-B	1,25-Dihydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%) CP 95%	50 µg/mL in ethanol	1 mL
DLM-9107-C	1,25-Dihydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%) CP 95%	100 µg/mL in ethanol	1 mL
DLM-9107	1,25-Dihydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%) CP 95%	neat	1 mg
ULM-9108-B	1,25-Dihydroxyvitamin D3 (unlabeled) CP 95%	50 µg/mL in ethanol	1 mL
ULM-9108-C	1,25-Dihydroxyvitamin D3 (unlabeled) CP 95%	100 µg/mL in ethanol	1 mL
ULM-9108	1,25-Dihydroxyvitamin D3 (unlabeled) CP 95%	neat	0.5 mg, 1 mg
ULM-9109-C	24,25-Dihydroxyvitamin D2 (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9109	24,25-Dihydroxyvitamin D2 (unlabeled)	neat	1 mg
DLM-9404-C	24R,25-Dihydroxyvitamin D3 (26,26,26,27,27,27-D <sub>6</sub> , 98%) CP 97%	100 µg/mL in ethanol	1 mL
DLM-9404	24R,25-Dihydroxyvitamin D3 (26,26,26,27,27,27-D <sub>6</sub> , 98%) CP 97%	neat	1 mg
ULM-10610-C	24R,25-Dihydroxyvitamin D3 (unlabeled) CP 97%	100 µg/mL in ethanol	1 mL
ULM-10610	24R,25-Dihydroxyvitamin D3 (unlabeled) CP 97%	neat	1 mg
DLM-9481	3-epi-25-Hydroxyvitamin D2 (6,19,19-D <sub>3</sub> , 98%)	neat	Please inquire
ULM-9110-B	3-epi-25-Hydroxyvitamin D2 (unlabeled)	50 µg/mL in ethanol	1 mL
ULM-9110-C	3-epi-25-Hydroxyvitamin D2 (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9110	3-epi-25-Hydroxyvitamin D2 (unlabeled)	neat	1 mg
CLM-9113-B	25-Hydroxyvitamin D2 (25,26,27- <sup>13</sup> C <sub>3</sub> , 99%) CP 95%	50 µg/mL in ethanol	1 mL
CLM-9113-C	25-Hydroxyvitamin D2 (25,26,27- <sup>13</sup> C <sub>3</sub> , 99%) CP 95%	100 µg/mL in ethanol	1 mL
DLM-9114-A	25-Hydroxyvitamin D2 (6,19,19-D <sub>3</sub> , 97%)	5 µg/mL in ethanol	1 mL
DLM-9114-B	25-Hydroxyvitamin D2 (6,19,19-D <sub>3</sub> , 97%)	50 µg/mL in ethanol	1 mL
DLM-9114-C	25-Hydroxyvitamin D2 (6,19,19-D <sub>3</sub> , 97%)	100 µg/mL in ethanol	1 mL
DLM-9114	25-Hydroxyvitamin D2 (6,19,19-D <sub>3</sub> , 97%)	neat	1 mg
ULM-9115-A	25-Hydroxyvitamin D2 (unlabeled)	5 µg/mL in ethanol	1 mL
ULM-9115-B	25-Hydroxyvitamin D2 (unlabeled)	50 µg/mL in ethanol	1 mL
ULM-9115-C	25-Hydroxyvitamin D2 (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9115	25-Hydroxyvitamin D2 (unlabeled)	neat	1 mg
DLM-10611-C	25-Hydroxyvitamin D2 sulfate, sodium salt (6,19,19-D <sub>3</sub> , 97%) CP 97%	100 µg/mL in ethanol	1 mL
ULM-10612-C	25-Hydroxyvitamin D2 sulfate, sodium salt (unlabeled) CP 97%	100 µg/mL in ethanol	1 mL
CLM-10266-C	3-epi-25-Hydroxyvitamin D3 (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 99%)	100 µg/mL in ethanol	1 mL
DLM-9111-B	3-epi-25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 98%)	50 µg/mL in ethanol	1 mL
DLM-9111-C	3-epi-25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 98%)	100 µg/mL in ethanol	1 mL
DLM-9111	3-epi-25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 98%)	neat	1 mg
ULM-9112-B	3-epi-25-Hydroxyvitamin D3 (unlabeled)	50 µg/mL in ethanol	1 mL
ULM-9112-C	3-epi-25-Hydroxyvitamin D3 (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9112	3-epi-25-Hydroxyvitamin D3 (unlabeled)	neat	1 mg
CLM-10025-C	25-Hydroxyvitamin D3 (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 99%) CP 95%	100 µg/mL in ethanol	1 mL
CLM-10025	25-Hydroxyvitamin D3 (23,24,25,26,27- <sup>13</sup> C <sub>5</sub> , 99%) CP 95%	neat	1 mg
DLM-9116	25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%)	neat	1 mg, 5 mg
DLM-9116-A	25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%)	5 µg/mL in ethanol	1 mL
DLM-9116-B	25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%)	50 µg/mL in ethanol	1 mL
DLM-9116-C	25-Hydroxyvitamin D3 (6,19,19-D <sub>3</sub> , 97%)	100 µg/mL in ethanol	1 mL
ULM-9117-A	25-Hydroxyvitamin D3 (unlabeled)	5 µg/mL in ethanol	1 mL
ULM-9117-B	25-Hydroxyvitamin D3 (unlabeled)	50 µg/mL in ethanol	1 mL
ULM-9117-C	25-Hydroxyvitamin D3 (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9117	25-Hydroxyvitamin D3 (unlabeled)	neat	5 mg

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**Vitamins and Their Metabolites** (continued)

Catalog No.	Description	Concentration	Unit Size
DLM-7708	25-Hydroxyvitamin D3 monohydrate (26,26,26,27,27,27-D <sub>6</sub> , 98%) CP 97%	neat	1 mg
ULM-10383	Menaquinone-4 2,3-epoxide (unlabeled) CP 95%	neat	1 mg
DLM-9793-N	Pyridoxal phosphate (mix of 5-,3-isomers) (methyl-D <sub>3</sub> , 97%)	neat	1 mg
CLM-9548	5-Methyltetrahydrofolic acid (glutamic acid- <sup>13</sup> C <sub>5</sub> , 99%) CP 95%	neat	1 mg, 5 mg
CLM-7321-N	5-Methyltetrahydrofolic acid, calcium salt (glutamic acid- <sup>13</sup> C <sub>5</sub> , 98%) CP 95%	neat	1 mg, 5 mg
CLM-320	Vitamin A (retinal) (10- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-325	Vitamin A (retinal) (11- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-326	Vitamin A (retinal) (14- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-327	Vitamin A (retinal) (15- <sup>13</sup> C, 98%)	neat	Please inquire
DLM-7719	Vitamin A (retinal) (19,19,19,20,20,20-D <sub>6</sub> , 96%)	neat	Please inquire
CLM-331	Vitamin A (retinoic acid) (10- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-328	Vitamin A (retinoic acid) (11- <sup>13</sup> C, 98%)	neat	Please inquire
CLM-329	Vitamin A (retinoic acid) (14- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-330	Vitamin A (retinoic acid) (15- <sup>13</sup> C, 99%)	neat	Please inquire
CLM-4343	Vitamin A (retinoic acid) (10,11,14,15- <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
DLM-7720	Vitamin A (retinoic acid) (19,19,19,20,20,20-D <sub>6</sub> , 96%)	neat	Please inquire
DLM-9305	Vitamin A (retinol) (10,19,19,19-D <sub>4</sub> , 96%)	neat	1 mg
CLM-10259	Vitamin A (retinol) (12,13,14,20- <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
DLM-8113	Vitamin A (retinol) (19,19,19,20,20,20-D <sub>6</sub> , 97%)	neat	1 mg
DLM-9306	Vitamin A (retinol) (10,14,19,19,19,20,20,20-D <sub>8</sub> , 90%) CP 96%	neat	Please inquire
CLM-8870	Vitamin A acetate (retinal acetate) (12,13,14,20- <sup>13</sup> C <sub>4</sub> , 99%)	neat	Please inquire
CLM-4831	Vitamin A acetate (retinal acetate) (8,9,10,12,13,14,19,20- <sup>13</sup> C <sub>8</sub> , 99%)	neat	Please inquire
CLM-7277	Vitamin A acetate (retinal acetate) (8,9,10,11,12,13,14,15,19,20- <sup>13</sup> C <sub>10</sub> , 99%)	neat	Please inquire
DLM-2244	Vitamin A acetate (retinal acetate) 3-4% cis (10,19,19,19-D <sub>4</sub> , 96%)	neat	Please inquire
DLM-3828	Vitamin A acetate (retinal acetate) 3-4% cis (19,19,19,20,20,20-D <sub>6</sub> , 96%)	neat	Please inquire
DLM-4203	Vitamin A acetate (retinal acetate) 3-4% cis (10,14,19,19,19,20,20,20-D <sub>8</sub> , 90%) neat	neat	Please inquire
CLM-10772	Vitamin A aldehyde (retinal aldehyde) (12,13,14,20- <sup>13</sup> C <sub>4</sub> , 96%)	neat	Please inquire
DLM-4902	Vitamin A palmitate (retinyl palmitate) (10,19,19,19-D <sub>4</sub> , 96%) all trans, <4% cis, 50 ppm BHT	neat	1 mg
CLM-7667	Vitamin B <sub>1</sub> hydrochloride (thiamine hydrochloride) (4,5,4-methyl- <sup>13</sup> C <sub>3</sub> , 99%) CP 97%	neat	5 mg
ULM-10004	Vitamin B <sub>1</sub> hydrochloride (thiamine hydrochloride) (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-8741	Vitamin B <sub>1</sub> pyrophosphate (thiamine pyrophosphate) (pyrimidyl-methyl-D <sub>3</sub> , 98%)	neat	1 mg
V-053	Vitamin B <sub>1</sub> pyrophosphate (thiamine pyrophosphate) (unlabeled)	1 mg/mL in methanol:water (1:1)	1 mL
CNLM-8851	Vitamin B <sub>2</sub> (riboflavin) ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) CP 97%	neat	1 mg, 5 mg, 0.01 mg
ULM-9123	Vitamin B <sub>2</sub> (riboflavin) (unlabeled) CP 97%	neat	1 mg, 5 mg, 10 mg
CNLM-10744	Vitamin B <sub>2</sub> phosphate (riboflavin phosphate) ( <sup>13</sup> C <sub>4</sub> , 99%; <sup>15</sup> N <sub>2</sub> , 98%) CP >90%	neat	1 mg
CLM-9925	Vitamin B <sub>3</sub> (nicotinamide) ( <sup>13</sup> C <sub>6</sub> , 99%)	neat	1 mg, 5 mg
DLM-6883	Vitamin B <sub>3</sub> (nicotinamide) (D <sub>4</sub> , 98%)	neat	0.1 g, 5 g
CNLM-9757	Vitamin B <sub>3</sub> (nicotinamide) (2,6,carbonyl- <sup>13</sup> C <sub>3</sub> , 99%; ring-1- <sup>15</sup> N, 98%)	neat	1 mg
CNLM-9512	Vitamin B <sub>3</sub> (nicotinic acid) (2,6,carboxyl- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%) CP 97%	neat	1 mg
CNLM-7694	Vitamin B <sub>5</sub> , calcium salt·H <sub>2</sub> O (calcium pantothenate·H <sub>2</sub> O) (β-alanyl- <sup>13</sup> C <sub>3</sub> , 99%; <sup>15</sup> N, 98%)	neat	0.01 g
ULM-10003	Vitamin B <sub>5</sub> , calcium salt·H <sub>2</sub> O (calcium pantothenate·H <sub>2</sub> O) (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-9069	Vitamin B <sub>6</sub> (pyridoxal) (methyl-D <sub>3</sub> , 98%)	neat	1 mg, 5 mg, 10 mg
ULM-9118	Vitamin B <sub>6</sub> (pyridoxal·HCl) (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-9119	Vitamin B <sub>6</sub> (pyridoxamine·2HCl) (methyl-D <sub>3</sub> , 98%)	neat	1 mg, 5 mg, 10 mg
ULM-9120	Vitamin B <sub>6</sub> (pyridoxamine·2HCl) (unlabeled)	neat	1 mg, 5 mg, 10 mg
CLM-7563	Vitamin B <sub>6</sub> (pyridoxine·HCl) (4,5-bis(hydroxymethyl)- <sup>13</sup> C <sub>4</sub> , 99%)	neat	10 mg
DLM-8754	Vitamin B <sub>6</sub> (pyridoxine·HCl) (5-hydroxymethyl-D <sub>2</sub> , 98%)	neat	1 mg, 5 mg
DLM-9121	Vitamin B <sub>6</sub> (pyridoxine·HCl) (methyl-D <sub>3</sub> , 98%) CP 96%	neat	1 mg, 5 mg, 10 mg
ULM-9122	Vitamin B <sub>6</sub> (pyridoxine·HCl) (unlabeled) CP 96%	neat	1 mg, 5 mg, 10 mg
DLM-8806	Vitamin B <sub>7</sub> (biotin) (ring-6,6-D <sub>2</sub> , 98%) CP 97%	neat	5 mg, 10 mg, 20 mg

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

Catalog No.	Description	Concentration	Unit Size
DLM-9751	Vitamin B <sub>7</sub> (biotin) (3',3',4',4'-D <sub>4</sub> , 98%) CP 95%	neat	1 mg
ULM-9129	Vitamin B <sub>7</sub> (biotin) (unlabeled)	neat	1 mg, 5 mg
CLM-7861-N	Vitamin B <sub>9</sub> (folic acid) (glutamic acid- <sup>13</sup> C <sub>5</sub> , 99%) CP 95%	neat	1 mg, 5 mg
CLM-7861	Vitamin B <sub>9</sub> (folic acid) (glutamic acid- <sup>13</sup> C <sub>5</sub> , 95%) contains ~10% H <sub>2</sub> O	neat	Please inquire
CNL M-9564	Vitamin B <sub>9</sub> (folic acid) (glutamic acid- <sup>13</sup> C <sub>5</sub> , 99%; <sup>15</sup> N, 98%) CP 95%	neat	1 mg, 5 mg
CLM-9770	Vitamin B <sub>12</sub> (cyanocobalamin) ( <sup>13</sup> C <sub>7</sub> , 99%) CP 95%	1 µg/mL in methanol	1 mL
ULM-10005-E	Vitamin B <sub>12</sub> (cyanocobalamin) (unlabeled)	1 µg/mL in methanol	1 mL
CLM-3085	Vitamin C (L-ascorbic acid) (1- <sup>13</sup> C, 99%)	neat	50 mg, 100 mg, 250 mg, 500 mg
CLM-7283	Vitamin C (L-ascorbic acid) (U- <sup>13</sup> C <sub>6</sub> , 98%)	neat	50 mg, 100 mg
V-038	Vitamin C (L-ascorbic acid) (unlabeled)	1 mg/mL in acetonitrile:water (1:1)	1 mL
DLM-8985-C	Vitamin D <sub>2</sub> (ergocalciferol) (6,19,19-D <sub>3</sub> , 97%)	100 µg/mL in ethanol	1 mL
DLM-8985-D	Vitamin D <sub>2</sub> (ergocalciferol) (6,19,19-D <sub>3</sub> , 97%)	1000 µg/mL in ethanol	1 mL
DLM-8985	Vitamin D <sub>2</sub> (ergocalciferol) (6,19,19-D <sub>3</sub> , 97%)	neat	1 mg
ULM-9124-C	Vitamin D <sub>2</sub> (ergocalciferol) (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9124-D	Vitamin D <sub>2</sub> (ergocalciferol) (unlabeled)	1000 µg/mL in ethanol	1 mL
ULM-9124	Vitamin D <sub>2</sub> (ergocalciferol) (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-10478-C	Vitamin D <sub>2</sub> sulfate, sodium salt (6,19,19-D <sub>3</sub> , 98%) CP 97%	100 µg/mL in ethanol	1 mL
ULM-10477	Vitamin D <sub>2</sub> sulfate, sodium salt (unlabeled) CP 97%	100 µg/mL in ethanol	1 mL
CLM-7850	Vitamin D <sub>3</sub> (cholecalciferol) (23,24- <sup>13</sup> C <sub>2</sub> , 99%) CP 90%	neat	Please inquire
CLM-10470-C	Vitamin D <sub>3</sub> (cholecalciferol) (23,24,25,26,26- <sup>13</sup> C <sub>5</sub> , 98%) CP 97%	100 µg/mL in ethanol	1 mL
CLM-10470-D	Vitamin D <sub>3</sub> (cholecalciferol) (23,24,25,26,26- <sup>13</sup> C <sub>5</sub> , 98%) CP 97%	1000 µg/mL in ethanol	1 mL
DLM-8853-C	Vitamin D <sub>3</sub> (cholecalciferol) (6,19,19-D <sub>3</sub> , 97%) CP 97%	100 µg/mL in ethanol	1 mL
DLM-8853-D	Vitamin D <sub>3</sub> (cholecalciferol) (6,19,19-D <sub>3</sub> , 97%) CP 97%	1000 µg/mL in ethanol	1 mL
DLM-10749-C	Vitamin D <sub>3</sub> (cholecalciferol) (26,26,26,27,27-D <sub>6</sub> , 98%) CP 95%	100 µg/mL in ethanol	1 mL
DLM-10749-D	Vitamin D <sub>3</sub> (cholecalciferol) (26,26,26,27,27-D <sub>6</sub> , 98%) CP 95%	1 mg/mL µg/mL in ethanol	1 mL
ULM-9125-C	Vitamin D <sub>3</sub> (cholecalciferol) (unlabeled)	100 µg/mL in ethanol	1 mL
ULM-9125-D	Vitamin D <sub>3</sub> (cholecalciferol) (unlabeled)	1000 µg/mL in ethanol	1 mL
ULM-9125	Vitamin D <sub>3</sub> (cholecalciferol) (unlabeled)	neat	1 mg, 5 mg, 10 mg
DLM-10475-C	Vitamin D <sub>3</sub> sulfate, sodium salt (6,19,19-D <sub>3</sub> , 98%) CP 97%	100 µg/mL in ethanol	1 mL
DLM-10476	Vitamin D <sub>3</sub> sulfate, sodium salt (26,26,26,27,27-D <sub>6</sub> , 98%) CP 97%	100 µg/mL in ethanol	1 mL
ULM-10474-C	Vitamin D <sub>3</sub> sulfate, sodium salt (unlabeled) CP 97%	100 µg/mL in ethanol	1 mL
CLM-10274	Vitamin E (DL-Rac-2-tocopherol) (trimethyl- <sup>13</sup> C <sub>3</sub> , 99%) CP 96%	neat	1 mg
CLM-10273	Vitamin E (α-tocopherol) (trimethylphenyl- <sup>13</sup> C <sub>3</sub> , 99%) CP 96%	neat	1 mg
CLM-10275	Vitamin E (α-tocopherol) (phenyl- <sup>13</sup> C <sub>6</sub> , 99%) CP 96%	neat	1 mg
CLM-10276	Vitamin E (α-tocopherol) (trimethylphenyl- <sup>13</sup> C <sub>9</sub> , 99%) CP 96%	neat	1 mg
DLM-9126	Vitamin E (α-tocopherol) (5-methyl-D <sub>3</sub> , 7-methyl-D <sub>3</sub> , 98%)	neat	2 mg, 5 mg, 10 mg
ULM-9127	Vitamin E (α-tocopherol) (unlabeled) CP 96%	neat	1 mg, 5 mg, 10 mg
DLM-8847	Vitamin E acetate (tocopherol acetate) (acetyl-D <sub>3</sub> , 98%)	neat	Please inquire
CLM-9566	Vitamin K <sub>1</sub> (phylloquinone) (4α,5,6,7,8,8α- <sup>13</sup> C <sub>6</sub> , 99%)	neat	1 mg
DLM-7702	Vitamin K <sub>1</sub> (phylloquinone) (ring-D <sub>4</sub> , 98%)	neat	1 mg
DLM-9130	Vitamin K <sub>1</sub> (phylloquinone) (D <sub>7</sub> , 99%) CP 97%	neat	1 mg, 5 mg, 10 mg
ULM-9131	Vitamin K <sub>1</sub> (phylloquinone) (unlabeled) CP 97%	neat	1 mg, 5 mg, 10 mg
CLM-10376	Vitamin K <sub>2</sub> (menaquinone MK-4) (4',5,6,7,8,8'- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	1 mg
DLM-10379	Vitamin K <sub>2</sub> (menaquinone MK-4) (5,6,7,8-D <sub>4</sub> , 2-methyl-D <sub>3</sub> , 98%) CP 95%	neat	1 mg
CLM-10377	Vitamin K <sub>2</sub> (menaquinone MK-7) (4',5,6,7,8,8'- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	1 mg
DLM-10380	Vitamin K <sub>2</sub> (menaquinone MK-7) (5,6,7,8-D <sub>4</sub> , 2-methyl-D <sub>3</sub> , 98%) CP 95%	neat	1 mg
CLM-10378	Vitamin K <sub>2</sub> (menaquinone MK-9) (4',5,6,7,8,8'- <sup>13</sup> C <sub>6</sub> , 99%) CP 95%	neat	1 mg
DLM-10381	Vitamin K <sub>2</sub> (menaquinone MK-9) (5,6,7,8-D <sub>4</sub> , 2-methyl-D <sub>3</sub> , 98%) CP 95%	neat	1 mg
DLM-10382	Vitamin K <sub>2</sub> 2,3-epoxide (menaquinone-4 2,3-epoxide) (5,6,7,8-D <sub>4</sub> , 2-methyl-D <sub>3</sub> , 98%) CP 95%	neat	1 mg
DLM-9132	Vitamin K <sub>3</sub> (menadione) (D <sub>8</sub> , 98%) CP 97%	neat	50 mg
ULM-9133	Vitamin K <sub>3</sub> (menadione) (unlabeled) CP 97%	neat	1 mg, 5 mg, 10 mg

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Water

Catalog No.	Description	Unit Size
DLM-4-99	Deuterium oxide (D, 99%)	1000 g, 5000 g
DLM-4-99.8	Deuterium oxide (D, 99.8%)	1000 g
DLM-4	Deuterium oxide (D, 99.9%)	100 g, 1000 g
OLM-782-10	Water ( <sup>17</sup> O, 10%)	1 g
OLM-782-20	Water ( <sup>17</sup> O, 20%)	1 g
OLM-782-40	Water ( <sup>17</sup> O, 35-40%)	1 g
OLM-782-90	Water ( <sup>17</sup> O, 90%)	1 g
OLM-240-10	Water ( <sup>18</sup> O, 10%)	1 g, 5 g, 10 g
OLM-240-97	Water ( <sup>18</sup> O, 97%)	50 g, 1 g
DOLM-242	Water (D <sub>2</sub> , 98%; <sup>18</sup> O, 97%)	1 g

## Urea

Catalog No.	Description	Unit Size
CLM-3046	Thiourea ( <sup>13</sup> C, 99%)	0.5 g
CNLM-4818	Thiourea ( <sup>13</sup> C, 99%; <sup>15</sup> N <sub>2</sub> , 98%)	0.5 g
CLM-311	Urea ( <sup>13</sup> C, 99%)	1 g
CLM-311-MPT	Urea ( <sup>13</sup> C, 99%)	Please inquire
DLM-1269	Urea (D <sub>4</sub> , 98%)	25 g
NLM-233	Urea ( <sup>15</sup> N <sub>2</sub> , 98%)	1 g, 5 g
NLM-233-MPT	Urea ( <sup>15</sup> N <sub>2</sub> , 98%)	Please inquire
NLM-233-10	Urea ( <sup>15</sup> N <sub>2</sub> , 10%)	25 g
NLM-233-5	Urea ( <sup>15</sup> N <sub>2</sub> , 5%)	Please inquire
OLM-655	Urea ( <sup>18</sup> O, 95%)	Please inquire
CNLM-234	Urea ( <sup>13</sup> C, 99%; <sup>15</sup> N <sub>2</sub> , 98%)	0.5 g
COLM-4861	Urea ( <sup>13</sup> C, 99%; <sup>18</sup> O, 98%)	0.5 g
CNOLM-8871	Urea ( <sup>13</sup> C, 99%; <sup>15</sup> N <sub>2</sub> , 99%; <sup>18</sup> O, 99%)	Please inquire

Chemical purity (CP) is 98% or greater, unless otherwise specified. MPT: microbiologically and pyrogen tested.  
For research use only. Not for use in diagnostic procedures.

## Research Use of Products

■ CILの研究用試薬にはいくつかのグレードがあります。

製品コードに『MPT』と表記されている製品(MPTグレード, 例:DLM-349-MPT)は、バルクの状態で無作為にサンプルを採取し、エンドトキシンや常在菌等(*S. aureus*, *P. aeruginosa*, *E. coli*, *Salmonella* sp., aerobic bacteria, yeast)の非含有(微生物学的試験)を確認しています。なお、これら製品の輸送中において予期せぬ汚染の可能性もあります。お手元に届いた後にお客様ご自身の試験方法を用いてご確認されることをお勧めいたします。

製品コードに『MPT』と表記されていない製品においても、微生物学的試験を実施することが可能です。この場合には、別途試験費用がかかる場合があります。お問い合わせください。また、Enhanced Data Package (EDP)もご用意いたします(次頁参照)。

■ 臨床応用するためのサポートとして、ロット別分析データ、試験方法プロトコルを提供できます。

大容量が必要となる長期プロジェクトを始められる場合、特定のロットを確保することができます。研究の一貫性を保つため、ロット間差を無くし、納期遅延、在庫切れを防ぐことが目的です。

なお、有効期限がある製品を無期限で確保することはできません。ご了承ください。詳細はお問い合わせください。

### 製品コード

CLM-XXX-PK	研究用試薬	Research grade
CLM-XXX-MPT	微生物・発熱性物質試験	Microbiologically and Pyrogen Tested
CLM-XXX-CTM	ICH Q7項目XIXに準拠	Manufactured following ICH Q7, Section XIX
CLM-XXX-GMP	GMPグレード	Good Manufacturing Practices grade

## Enhanced Data Package (EDP)

MPTグレードの製品に対して、オプションとしてEnhanced Data Package (EDP) をご用意できます。ご注文時にご指定ください。

ご注文後や製品（ロット）においてはEDPの対応ができない場合もありますので、ご注文時にお問い合わせください。

### EDP概要

- ・ 製品詳細：構造式、立体化学的詳細、分子式
- ・ 物理的性質：融解点、pH、旋光（文献または測定値）
- ・ 合成ルート概要（溶媒詳細含む）
- ・ 構造式および化学純度確認時のデータ
- ・ 追加試験データ：米国薬局方（USP）または欧州薬局方（EP）の規定に準拠
- ・ 不純物：検出・同定された不純物と試験方法、カットオフ値
- ・ 残留溶媒：製品における残留溶媒
- ・ 原材料の成績証明書（必要に応じて）
- ・ 非公式的な安定性データ
  - CIL在庫の同等品を用いた評価結果、もしくはCILの経験値から推測した使用期限。
  - 供給したバッチを6か月後および1年後に安定性評価可能です。ご注文時にご要望ください。



*Image is for illustrative purposes only and may not be representative of actual product(s).*

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## 研究用試薬情報

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▶ 文字サイズの変更方法

研究用試薬 CIL社製品

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**CIL社製品**

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(価格は予告なく変更になる場合がございます。)



キーワードによってCIL試薬約12000種類の中から、お客様の求める試薬を検索することができます。

商品コード(前方一致)   
商品名(部分一致)   
Categories  Isotope(部分一致)   
Formula(部分一致)   
CAS#(先頭一致)

最新のカタログをダウンロードすることができます。

検索

**カタログダウンロード**

CIL社製品のカタログがダウンロードできます。

ダウンロード一覧

製品の用途からも試薬を検索することができます。

**カテゴリー一覧**

Research Products	Environmental Products	Clinical Research
<ul style="list-style-type: none"><li>▶ Amino Acids</li><li>▶ Biological Standards</li><li>▶ Buffers and Reagents</li><li>▶ Carbohydrates</li><li>▶ Cell Growth Media</li><li>▶ Cellular Metabolism and Metabolomics</li><li>▶ Chemical Tagging Reagents and Related Products</li><li>▶ Fatty Acids &amp; Lipids</li><li>▶ <math>\alpha</math>-Keto Acids</li><li>▶ Metals</li><li>▶ Metabolites and Substrates</li><li>▶ Methyl Labeling Kits and Amino Acids</li><li>▶ Microbiological and Pyrogen Tested (MPT)</li><li>▶ Minimal Media</li><li>▶ Monomers &amp; Polymers</li><li>▶ MouseExpress® Mouse Feed</li><li>▶ MouseExpress® Mouse Tissue</li></ul>	<ul style="list-style-type: none"><li>▶ Dioxin and Furan Individual Standards</li><li>▶ Dioxin and Furan Method Standards, Standard Mixtures, and Reference Materials</li><li>▶ PCB Standards and Standard Mixtures</li><li>▶ Flame Retardants</li><li>▶ Dioxin/Furan/PCB Standard Mixtures</li><li>▶ Polycyclic Aromatic Hydrocarbon (PAH) Standards and Standard Mixtures</li><li>▶ Priority Pollutant Standard Mixtures</li><li>▶ Priority Pollutant, Endocrine Disruptor, and Chemical Contaminant Standards</li><li>▶ Pesticide and Chemical Weapon Standards</li><li>▶ Pharmaceuticals and Personal Care Products (PPCPs)</li><li>▶ Phthalate and Phthalate Metabolite Standards</li></ul>	<ul style="list-style-type: none"><li>▶ cGMP Products</li><li>▶ Water</li><li>▶ All Clinical Research</li></ul>

Please visit [isotope.com](http://isotope.com) for a complete list of isotope-labeled compounds.



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