



Reagents for Nucleic Acid Synthesis

"Nucleic acid medicine" has attracted a lot of attention as next-generation pharmaceuticals following "small molecular medicine" and "antibody medicine". Nucleic acid medicine is the generic name of pharmaceutical products using DNA or RNA controlling a genetic information, and the nucleic acid is prepared by chemical synthesis.

We line up the reagents used in the phosphoramidite method for nucleic acid synthesis. We can customize the composition and package size.

Oligonucleotides synthesis

For the oligonucleotides synthesis, solid phase synthesis method using amidite called phosphoramidite method is generally used. This process is Detritylation, Coupling, Capping and Oxidation. It is synthesized by repeating this cycle until the desired chain length is reached. This reaction is performed by an automatic synthesizer.

Reaction reagents for the oligonucleotides synthesis

Features

- Lineup of all reagents used in the phosphoramidite method
- Low moisture guaranteed by high dehydration technology
- Customizable the composition and package size
- Color labels by reagent type to prevent the misplacement

Reagent for ÄKTA oligopilot synthesizer

- Handling the reagents for ÄKTA oligopilot synthesizer
- Use acetonitrile as a solvent

Deblocking Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
049-34443	Dahla dia a Calutian [Diahlaman tia Arid Tahana (207)]	100mL	≦40 ppm	Keep at RT
043-34441	Deblocking Solution [Dichloroacetic Acid-Toluene (3:97)]	3L		

Activator Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
011-19681	Activator Solution-1 (0.25mol/L 4,5-Dicyanoimidazole, Acetonitrile Solution)	3L	≦30 ppm	Keep at RT
011-19701	Activator Soluiton-2 (0.45mol/L 1 <i>H</i> -Tetrazole, Acetonitrile Solution)	3L	≦30 ppm	Keep at RT
017-20014	Activator Solution-3	100mL	< 10	Koon at DT
013-20011	(0.25mol/L 5-Benzylthio-1 <i>H</i> -tetrazole, Acetonitrile Solution)	3L	≦10 ppm	Keep at RT
014-19693	Activator Solution-4	100mL	≦10 ppm	Koon at DT
018-19691	(0.25mol/L 5-Ethylthio-1 <i>H</i> -tetrazole, Acetonitrile Solution)	3L	= 10 ppm	Keep at RT

Capping Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
037-25393	Cap A Solution	100mL	<100 ppm	Koon ot DT
031-25391	[1-Methylimidazole-Acetonitrile (2:8)]	3L	≦100 ppm	Keep at RT
030-25383	Cap B1 Solution	100mL	_	Kaan at DT
034-25381	[Acetic Anhydride-Acetonitrile (4:6)]	3L	_	Keep at RT
033-25373	Cap B2 Solution	100mL	≦100 ppm	Keep at RT
037-25371	[2,6-Lutidine-Acetonitrile (6:4)]	3L	≥ 100 ppm	Keep at Ki
030-25403	Cap B Solution	100mL	_	Keen et DT
034-25401	[Acetic Anhydride-2,6-Lutidine-Acetonitrile (2:3:5)]	3L	-	Keep at RT

Oxidation Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
092-05341	Oxidizing Solution [Iodine Solution (abt. 0.05mol/L)][Pyridine:Water(9:1)]	3L	-	Keep at RT

Reagent for another synthesizer

Deblocking Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
046-28924	Deblocking Solution-1	100mL	≦40 ppm	Keep at 25°C
042-28921	(3w/v% Trichloroacetic Acid, Dichloromethane Solution)	3L	≟40 ppm	or less.
049-34443	Deblecking Calution [Diablesessatic Acid_Taluene (207)]	100mL	< 40	Koon et DT
043-34441	Deblocking Solution [Dichloroacetic Acid-Toluene (3:97)]	3L	≦40 ppm	Keep at RT

Activator Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
011-19681	Activator Solution-1 (0.25mol/L 4,5-Dicyanoimidazole, Acetonitrile Solution)	3L	≦10 ppm	Keep at RT
011-19701	Activator Soluiton-2 (0.45mol/L 1 <i>H</i> -Tetrazole, Acetonitrile Solution)	3L	≦10 ppm	Keep at RT
017-20014	Activator Solution-3	100mL	≦10 ppm	Keep at RT
013-20011	(0.25mol/L 5-Benzylthio-1 <i>H</i> -tetrazole, Acetonitrile Solution)	3L	≥ 10 ppm	Reep at R1
014-19693	Activator Solution-4	100mL	≦10 ppm	Keep at RT
018-19691	(0.25mol/L 5-Ethylthio-1 <i>H</i> -tetrazole, Acetonitrile Solution)	3L	io ppm	Neep at RT

Capping Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
036-18991	Cap A Solution-1 (10vol% Acetic anhydride-Tetrahydrofuran Soluiton)	3L	≦100 ppm	Keep at RT
033-19001	Cap B Solution-1 [Tetrahydrofuran/1-Methylimidazole/Pyridine (8:1:1) Solution]	3L	≦100 ppm	Keep at RT
036-19013	Cap A Solution-2	100mL	≦100 ppm	Keep at RT
030-19011	(Tetrahydrofuran/Acetic Anhydride/Pyridine (8:1:1) Solution)	3L	i 100 ppiii	кеер ас кт
033-19023	Cap B Solution-2	100mL	≦100 ppm	Koon at DT
037-19021	[(10vol% 1-Methylimidazole/Tetrahydrofuran Solution)	3L	⊒ 100 ppiii	Keep at RT

Oxidation Reagent

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
156-02451	Oxidizing Solution-2 Composition: 0.1mol/L I ₂ •THF:Pyridine:Water(78:20:2)Solution	3L	ı	Keep at RT

Sulfurization Reagent

Code No.	Product Name	CAS No.	Pkg. Size	Water content	Storage Condition
166-28251	5 Dhamid 2// 12.4 dithinal 2 and	7047-10-1	5g	≦200 ppm	Keep at
164-28252	5-Phenyl-3 <i>H</i> -1,2,4-dithiazol-3-one	7047-10-1	25g		2-10 °C

Reaction solvent for oligonucleotides synthesis

- Low moisture guarantee makes it suitable for nucleic acid synthesis.
- Available from 3L laboratory scale to industrial scale.

Code No.	Product Name	Pkg. Size	Water content	Storage Condition
018-14451	A - A - a - i - i - i - C - a - a - D - la - d - a - d	3L	< 10	V+ DT
015-27117	Acetonitrile, Super Dehydrated	18L	≦10 ppm	Keep at RT
167-18455		500mL	≦50 ppm	Keep at RT
165-18451	Pyridine, Dehydrated	3L		
204-17915	T	500mL	≤10 ppm	Keep at RT
206-17914	Toluene, Super Dehydrated	3L		

Listed products are intended for laboratory research use only, and not to be used for drug, food or human use. / Please visit our online catalog to search for other products from Wako; http://www.e-reagent.com / This leaflet may contain products that cannot be exported to your country due to regulations. / Bulk quote requests for some products are welcomed. Please contact us.

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