

Pharmaceutical Raw Materials [CertiPro Series]

FUJIFILM Wako Pure Chemical provides pharmaceutical raw materials that are used in the manufacturing process of pharmaceutical products. Ingredients listed in official compendia such as the Japanese Pharmacopoeia(JP), Japanese Pharmaceutical Codex (JPC), and Japanese Pharmaceutical Excipients (JPE) are available, and, in addition, non-compendial ingredients (not listed in official compendia) are provided in accordance with our own specifications. These products are classified into two categories depending on compliant standards: CertiPro (GMP-compliant products) and CertiPro-L (ISO9001-compliant products). Some products conform the specifications items in the USP-NF and Ph. Eur. and undergo endotoxins test.

GMP-compliant Products

CertiPro

Pharmaceutical raw materials manufactured under GMP. The lineup includes products listed in the Japanese Pharmacopoeia (JP), Japanese Pharmaceutical Codex (JPC), and Japanese Pharmaceutical Excipients (JPE).

Features

- GMP compliant
- Products listed in the JP, JPC, and JPE
- Conforming to the specifications in the USP-NF and Ph. Eur. (depending on the product)

ISO9001-compliant Products

CertiPro-L

Pharmaceutical raw materials manufactured under ISO 9001. The lineup includes products conforming to the Japanese Pharmacopoeia (JP) and Japanese Pharmaceutical Excipients (JPE). Non-compendial products not listed in official compendia are provided in accordance with our own specifications.

Features

- ISO9001 compliant
- Lineup including products listed in the JP and JPE, and non-compendial products

Management system of CertiPro Series

Production Management of CertiPro



	CertiPro	CertiPro-L
Quality management	GMP	ISO 9001
CoA available	•	•
Statement available	•	•
Supplier management	•	•*
Change control	•	•*
Deviation control	•	•*
Process control validation	•	

*Management using ISO quality management system

Production Sites

Aichi Plant

GMP

- · Large-scale manufacturing plant for raw materials, intermediates and chemicals
- Advanced pollution control
- GMP-controlled media production

Harima Plant

- · Backup plant of Aichi plant
- · Medium-scale chemical manufacturing plant

Miyazaki Plant GMP

· Small-scale manufacturing plant for raw materials, intermediates and chemicals

Hirono Plant

- · Manufacture of APIs with cGMP
- Equipped with a super lowtemperature reactor, a hydrogenation reduction reactor, a fluoride resistant oven and various mills.

Tokyo Plant

- · non-GMP pharmaceutical intermediate manufacturing
- R&D laboratory

Hiratsuka Plant

- · non-GMP pharmaceutical intermediate manufacturing
- Multipurpose facilities

Osaka Plant GMP

- GMP-compliant pharmaceutical manufacturing
- · Licensed pharmaceutical manufacturer

■ Main Products

- · Pharmaceutical raw materials
- · Life science reagents (PCR detection reagent, DNA extraction kit etc.)
- · Chemical reagent (powder · liquid reagents)
- · Process solution
- · Clinical diagnostic reagent

■ Inspection and Audit History

Japanese authorities

- · 2017.10 GMP conformity survey by Hyogo Prefectural Pharmaceutical Affairs Division (Regular/Export)
- · 2018.10 GMP conformity survey by Hyogo Prefectural Pharmaceutical Affairs Division (Partial change)
- GMP conformity survey by Hyogo Prefectural Pharmaceutical Affairs Division · 2021.10 (Regular/Export)

Conduct 5-10 on-site quality audits each year from Japanese and overseas clients

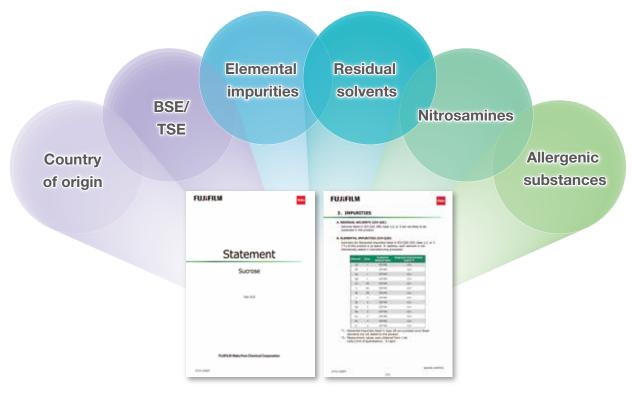


Amagasaki City, Hyogo Prefecture 23,332 m ISO9001, ISO/IEC17025 ISO14001, ISO17034

**All GMP facilities except Aichi plant are audited by Japanese Authority

Statement

FUJIFILM Wako Pure Chemical issue our Statement on Raw Materials for Pharmaceutical Use to provide information about our products as well as information on the drug risk management. Here are some of the details included in the statement. Statements are obtainable from product introduction page on our website.



Product Profile: Chemical name, CAS RN, Product name, Product code, Manufacturing control standards, Grade/Specification

Product Information: Country of origin, Derived material, BSE/TSE, GMO, Allergenic substances Highly potency substances, Melamine, Nitrosamines, Impurities

Customized Service

FUJIFILM Wako Pure Chemical offer custom services to meet customer requirements. We respond to a variety of requests, including large-scale packaging for scale-up, and compliance with the standards of various compendial standards, including the JP, USP-NF and Ph. Eur. Please contact us for details.



^{*}For more information, please visit website.

Top of our Raw material Pharmaceutical Industry website

https://labchem-wako.fujifilm.com/us/pharmaceutical-raw-materials/index.html

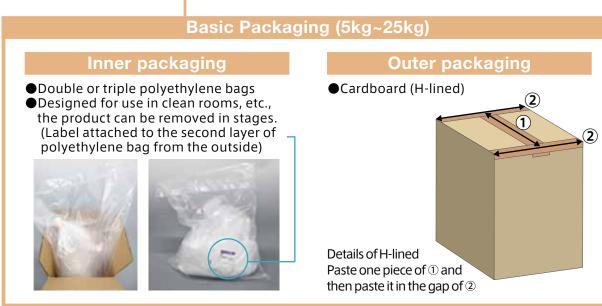


Packaging

The basic packaging of CertiPro series are 500g, 10kg and 20kg. Depending on your request, FUJIFILM Wako can change the pacakge size and specifications.



*For requests for package size and specifications other than those listed above, please contact us.



CertiPro

Features

- GMP compliant
- Issuing a Statement*1
- Conforming to the specifications in the USP-NF and Ph. Eur.*2 (depending on the product)
- *1 Statement containing quality information such as product information (origin, BSE/TSE, GMO, etc.), impurity data (residual solvents, elemental impurities), etc. can be obtained from website.
- *2 Specification of products reflects latest versions of pharmacopeia.

Product Lineup

Please contact us for individual requests regarding capacity.

Product	Package				ormity		Chemical		
Code	Size	Product Name	Grade	USP- NF	Ph. Eur.	Endotoxin	Formula	CAS RN®	Principal Use
013-28757	10 kg	Acetylcysteine	JP	✓	✓	Less than 10 EU/g	C₅H ₉ NO₃S	616-91-1	Culture medium additive
030-19555	500 g	Calcium Chloride Hydrate	JP			Less than 2.5 EU/g	CaCl ₂ · 2H ₂ O	10035-04-8	Stabilizer
037-26035	500 g	Calcium Gluconate	JP			Less than 1.5 EU/g	C ₁₂ H ₂₂ CaO ₁₄	299-28-5	Calcium
033-26037	10 kg	Hydrate	JF			Less than 1.5 LO/g	• H ₂ O	299-20-3	strengthener
032-25245	500 g	Citric Acid Hydrate	JP	✓	✓	Less than 8 EU/g	$C_6H_8O_7 \cdot H_2O$	5949-29-1	Stabilizer · Buffer
047-29015	500 g	Dibasic Potassium	JPC	✓	✓	Less than 0.2 EU/g	K ₂ HPO ₄	7758-11-4	Buffer
043-29017	20kg	Phosphate	01 0		·	Less than 0.2 L0/g	N ₂ i ii O ₄	7750-11-4	Dullel
047-34385	500g	Dibasic Sodium	JP	✓	✓	Less than 0.2 EU/g	Na ₂ HPO ₄	10039-32-4	Buffer
043-34387	10 kg	Phosphate Hydrate	OI .	,	,	2000 than 0.2 20/g	• 12H₂O	10000 02 4	Ballot
046-34615	500 g	Disodium Edetate	JP			Less than 10 EU/g	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈	6381-92-6	Stabilizer
042-34617	20 kg	Hydrate	0,			2000 than 10 20/g	• 2H₂O	0001 02 0	Cidoliizoi
049-34345	500 g	Dried Sodium	JP	(NF)	✓	Less than 10 EU/g	Na ₂ CO ₃	497-19-8	Buffer
045-34347	10 kg	Carbonate	01	(. 4.)		2000 (1.0.1 10 20)	. 1320 03	.00 0	56.10.
076-05705	500 g	Glucose	JP			_	C ₆ H ₁₂ O ₆	50-99-7	Stabilizer
072-05707	10 kg	diacosc	01				61206		GtdS.II.ESI
075-06875	500 g	Glycine	JP	✓	✓	Less than 1.2 EU/g	C ₂ H ₅ NO ₂	56-40-6	Stabilizer
082-10475	500 mL	Hydrochloric Acid	JP		✓	Less than 10 EU/g	HCI	7647-01-0	Stabilizer · Buffer
121-06685	500 g	Lactose Hydrate	JP	*	3	Less than 25 EU/g	C ₁₂ H ₂₂ O ₁₁ · H ₂ O	64044-51-5	Excipients
130-18925	500 g	Magnesium Sulfate Hydrate	JP			Less than 10 EU/g	MgSO ₄₁ · 7H ₂ O	10034-99-8	Stabilizer
133-14495	500 g	D-Mannitol	JP	*	3	Less than 2.5 EU/g	C ₆ H ₁₄ O ₆	69-65-8	Stabilizer
136-14485	500 g	Monobasic Potassium	JPC	(NE)	✓	_	KH ₂ PO ₄	7778-77-0	Buffer
132-14487	25 kg	Phosphate	0, 0	(141)			1 1 121 04	7770770	Dallo

Code Size Product Name Grade USP-NF Eur. Ph. Eur. Endotoxin Formula CAS RN Principal Ust 135-15555 500 g Sodium L-Glutamate Hydrate JPC (NF) -*4 Less than 3.9 EU/g C ₈ H ₈ NNaO ₄ · H ₂ O 6106-4-3 Stabilizer · Buf 163-22105 500 g Potassium Chloride JP — KCI 7447-40-7 Buffer 161-21925 500 g Potassium Indide JP — KI 7681-11-0 Stabilizer ·	Product	Package	2			rmity		Chemical		
Sodium Chloride JPC NF		Size	Product Name	Grade			Endotoxin	Formula	CAS RN®	Principal Use
183-15657 20 kg 163-22105 600 g Potassium Chloride JP	135-15555	500 g		JPC	(NF)	-*4	Less than 3.9 EU/g		6106-4-3	Stabilizer • Buffer
161-21925 500 g Potassium Iodide	131-15557	20 kg	Hydrate					• H ₂ O		
161-21926 300.9 Potassium todice JP	163-22105	500 g	Potassium Chloride	JP			_	KCI	7447-40-7	Buffer
10 kg Purified Glucose JP *3 Less than 2 EU/g C ₂ H ₁ NaO ₂ 50-99-7 Stabilizer 197-13235 500 g Sodium Acetate Hydrate JP Less than 2.5 EU/g C ₂ H ₃ NaO ₂ 3H ₂ O 6131-90-4 Buffer 197-18475 500 g 190-18505 500 g 190-18507 10 kg 197-18855 500 g 197-18855 500 g 197-18857 10 kg Sodium Citrate Hydrate JP ✓ Less than 3.1 EU/g NaCl 7647-14-5 Stabilizer • Buffer 197-18497 10 kg Sodium Dihydrogen 197-18497 10 kg Phosphate Dihydrate JP ✓ Less than 2.0 EU/g NaCH 1310-73-2 Buffer 196-18465 500 g 196-18467 10 kg Sodium Thiosulfate JP (NF) Less than 10 EU/g NaCH 1310-73-2 Buffer 198-18385 500 g 198-18385 500 g 198-18385 500 g 198-18385 500 g 199-18488 500 g 199-184888 500 g	161-21925	500 g	Potassium Iodide	JP			_	KI	7681-11-0	Stabilizer • Soluble agent
164-28517 10 kg 197-13235 500 g Sodium Acetate Hydrate JP Less than 2.5 EU/g C ₂ H ₃ NaO ₂ 53H ₂ O 6131-90-4 Buffer 197-18475 500 g 193-18477 10 kg Sodium Chloride JP ✓ Less than 10 EU/g NaCl 7647-14-5 Stabilizer · Buf 190-18507 10 kg Sodium Chloride JP ✓ Less than 3.1 EU/g NaCl 7647-14-5 Stabilizer · Buf 197-18485 500 g 193-18857 10 kg Sodium Dihydrogen 197-18497 10kg 10kg 190-18465 500 g 196-18467 10 kg 106-19465 500 g 196-19465 500 g 196-19465 500 g 196-19465 500 g 196-19467 20 kg 196-19467 20 kg 197-19495 500 g 10 kg	168-28515	500 g	Desified Change	īD		. 0	L # 0 [1]/-	011.0	50.00.7	O4 - I- ili
197-18475 500 g 193-18477 10 kg 194-18505 500 g 190-18507 10 kg 191-18495 500 g 191-	164-28517	10 kg	Purified Glucose	JP	*	3	Less than 2 EU/g	U ₆ H ₁₂ U ₆	50-99-7	Stabilizer
193-18477 10 kg 194-18505 500 g 190-18507 10 kg Sodium Chloride JP V Less than 10 EU/g NaHCO ₃ 144-55-8 Buffer 190-18507 10 kg 190-18507 10 kg Sodium Citrate Hydrate JP V Less than 3.1 EU/g NaCl 7647-14-5 Stabilizer • Buf 190-18495 500 g 191-18495 500 g 191-18497 10 kg Sodium Dihydrogen Phosphate Dihydrate JP V Less than 2.0 EU/g NaH ₂ PO ₄ 13472-35-0 Buffer 190-18465 500 g 196-18467 10 kg Sodium Thiosulfate JP (NF) V Less than 10 EU/g NaOH 1310-73-2 Buffer 196-19165 500 g 192-19167 20 kg 198-18385 500 g 194-18387 10 kg Sucrose JP (NF) V Less than 10 EU/g C ₁₂ H ₂₂ O ₁₁ 57-50-1 Stabilizer 197-19195 500 g 197-19195 500 g 197-19195 500 g 197-19197 10 kg 10	197-13235	500 g	Sodium Acetate Hydrate	JP			Less than 2.5 EU/g		6131-90-4	Buffer
193-18477 10 kg Sodium Chloride JP V Less than 3.1 EU/g NaCl 7647-14-5 Stabilizer · Buf 190-18507 10 kg Sodium Chloride JP V Less than 3.1 EU/g NaCl 7647-14-5 Stabilizer · Buf 197-18855 500 g Sodium Citrate Hydrate JP V Less than 5.2 EU/g C _g H _b Na ₃ O ₇ · 2H ₅ O 6132-04-3 Stabilizer · Buf 191-18495 500 g Sodium Dihydrogen Phosphate Dihydrate JPE V Less than 2.0 EU/g NaH ₂ PO ₄ · 2H ₅ O 13472-35-0 Buffer 190-18465 500 g Sodium Hydroxide JP (NF) V Less than 10 EU/g NaOH 1310-73-2 Buffer 196-19165 500 g Sodium Thiosulfate Hydrate JP Less than 10 EU/g Na ₂ S ₂ O ₃ · 5H ₂ O 10102-17-7 Stabilizer · Solubilizer 198-18385 500 g Sucrose JP (NF) Less than 2 EU/g C ₁₂ H ₂₂ O ₁₁ 57-50-1 Stabilizer 197-19195 500 g Sucrose [Low endotoxin type (Less than 0.2 EU/g)] </td <td>197-18475</td> <td>500 g</td> <td>Codium Biombounts</td> <td>ın</td> <td></td> <td></td> <td>Logo than 10 FI I/a</td> <td>Nalico</td> <td>144 55 0</td> <td>Duffor</td>	197-18475	500 g	Codium Biombounts	ın			Logo than 10 FI I/a	Nalico	144 55 0	Duffor
190-18507 10 kg 197-18855 500 g 193-18857 10 kg 191-18495 500 g 190-18465 500 g 190-	193-18477	10 kg	Sodium Bicarbonate	JP		•	Less than 10 EU/g	NaHCO₃	144-55-8	Buller
190-18855 500 g 193-18857 10 kg 191-18495 500 g 191-18495 500 g 191-18497 10 kg 190-18465 500 g 190-18465 500 g 190-18467 10 kg 190-18467 10 kg 190-18467 10 kg 190-19165 500 g 190-19165 500	194-18505	500 g	Codium Chlorida	ID.			Loop then Q 1 FIL/a	NaCl	7647 14 5	Ctobilizer Duffer
193-18857 10 kg Sodium Citrate Hydrate JP V Less than 5.2 EU/g C _e H _s Na _e O ₇	190-18507	10 kg	Sodium Chioride	JP	•	•	Less than 3.1 EU/g	Naci	7047-14-0	Stabilizer • Buller
193-18497 10 kg 191-18495 500 g 197-18497 10kg 190-18465 500 g 196-18467 10 kg 196-19165 500 g 192-19167 20 kg 198-18385 500 g 198-18385 500 g 199-19195 500 g 197-19195 500 g 193-19197 10 kg 193-19197 10 kg 199-19197 10 kg 199-19	197-18855	500 g	Carli and Citata Hadana	ın			L # 5 0 5U/s	C ₆ H ₅ Na ₃ O ₇	0100 04 0	Otalailiana Duffan
197-18497 10kg 10kg Phosphate Dihydrate JPE \(\sqrt{ \sqrt{NaH}_2PO_4 \cdot 2H_2O} \) 13472-35-0 Buffer 190-18465 500 g 196-18467 10 kg Sodium Hydroxide JP (NF) \(\sqrt{NaP}_2 \) Less than 10 EU/g NaOH 1310-73-2 Buffer 136-19165 500 g 192-19167 20 kg Hydrate JP Less than 10 EU/g Na ₂ S ₂ O _{3 \cdot 5H₂O 10102-17-7 Stabilizer \cdot Solubilizer Solubilizer 198-18385 500 g 194-18387 10 kg Sucrose [Low endotoxin type (Less than 0.2 EU/g)] Trometamol JPC \(\sqrt{Na}_2 \) Less than 0.03 IU/g C₄H₁₁NO₃ 77-86-1 Buffer Suffer}	193-18857	10 kg	Sodium Citrate Hydrate	JP	V	•	Less than 5.2 EU/g	· 2H ₂ O	6132-04-3	Stabilizer • Buller
197-18497 10kg Phosphate Dihydrate	191-18495	500 g	Sodium Dihydrogen	IDE			L # 0 0 EU/s	NaH ₂ PO ₄	10470.05.0	D. ff
Sodium Hydroxide JP (NF)	197-18497	10kg	Phosphate Dihydrate	JPE	•	•	Less than 2.0 E0/g	· 2H ₂ O	13472-35-0	Buller
196-18467 10 kg 196-19165 500 g 192-19167 20 kg 198-18385 500 g 194-18387 10 kg 197-19195 500 g 193-19197 10 kg 198-18385 500 g 199-19197 10 kg 199-19197	190-18465	500 g	Codium Huduquida	ID.	(NIE)		Logo than 10 FI I/a	NaOLL	1010 70 0	Duffor
Sodium Iniosulfate 192-19167 20 kg Hydrate Less than 10 EU/g Solubilizer Stabilizer Solubilizer Stabilizer	196-18467	10 kg	Sodium Hydroxide	JP	(INF)	•	Less than 10 EU/g	NaOH	1310-73-2	Випег
192-19167 20 kg	196-19165	500 g	Sodium Thiosulfate	ī			1 10 511/	Na ₂ S ₂ O ₃	10100 17 7	Stabilizer •
Sucrose Sucrose JP (NF) ✓ Less than 2 EU/g C ₁₂ H ₂₂ O ₁₁ 57-50-1 Stabilizer 194-18387 10 kg 197-19195 500 g Sucrose [Low endotoxin type (Less than 0.2 EU/g)] JP (NF) ✓ Less than 0.2 EU/g C ₁₂ H ₂₂ O ₁₁ 57-50-1 Stabilizer 203-21035 500 g Trometamol JPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ 77-86-1 Buffer	192-19167	20 kg	Hydrate	JP			Less than 10 EU/g	· 5H₂O	10102-17-7	Solubilizer
194-18387 10 kg 197-19195 500 g 193-19197 10 kg [Low endotoxin type (Less than 0.2 EU/g)] 203-21035 500 g Trometamol JPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol Buffer	198-18385	500 g		ī	(A.IE)			0.11.0	57.50.4	01.1.17
[Low endotoxin type JP (NF) ✓ Less than 0.2 EU/g C ₁₂ H ₂₂ O ₁₁ 57-50-1 Stabilizer 193-19197 10 kg (Less than 0.2 EU/g)] JPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ 77-86-1 Buffer C ₄ H ₁₁ NO ₃ Trometamol JPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol Buffer C ₄ H ₁₁ NO ₃ Trometamol JPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g C ₄ H ₁₁ NO ₃ Trometamol DPC ✓ ✓ Less than 0.03 IU/g DPC ✓ ✓ Less than 0.03 IU/g DPC ✓ OPC → DPC →	194-18387	10 kg	Sucrose	JP	(INF)	V	Less than 2 EU/g	G ₁₂ H ₂₂ O ₁₁	57-50-1	Stabilizer
193-19197 10 kg (Less than 0.2EU/g)] 203-21035 500 g Trometamol JPC ✓ ✓ Less than 0.03 IU/g C₄H₁₁NO₃ 77-86-1 Buffer	197-19195	500 g		I.C.	(A.I.D.		L # 0 0 511/	0.11.0	F7 F0 4	Otale'''
Trometamol JPC ✓ ✓ Less than 0.03 IU/g C₄H₁₁NO₃ 77-86-1 Buffer	193-19197	10 kg		JP	(INF)	•	Less than U.2 EU/g	$O_{12}H_{22}O_{11}$	57-50-1	Stabilizer
10 TOTAL CONTROL OF THE CONTROL OF T	203-21035	500 g	-	IDO			L # 0.00 !!!!	011-112	77.00 /	D. "
	209-21037	10 kg	Irometamol	JPC	V	V	Less than 0.03 IU/g	C ₄ H ₁₁ NO ₃	/ / -86-1	Butter
213-01295 500 g Urea JP Less than 2.5 EU/g CH ₄ N ₂ O 57-13-6 Stabilizer	213-01295	500 g	Urea	JP			Less than 2.5 EU/g	CH ₄ N ₂ O	57-13-6	Stabilizer

^{*3} These products are tested according to JP method. Some of the test items are harmonized to USP-NF Ph.Eur. For details, please check the product specifications.

^{*4} This product is not listed in Ph.Eur.

[■]For more information, please visit website.

Top of our Raw material Pharmaceutical Industry website >GMP compliant Products CertiPro https://labchem-wako.fujifilm.com/us/pharmaceutical-raw-materials/product/certipro.html

CertiPro-L

Features

- Lineup including products listed in the JP and JPE
- Non-compendial products not listed in official compendia are provided in accordance with our own specifications.
- ISO9001 compliant
- Issuing a Statement*1
- *1 Statement containing quality information such as product information (origin, BSE/TSE, GMO, etc.), impurity data (residual solvents, elemental impurities), etc. can be obtained from website.

Product Lineup

Please contact us for individual requests regarding capacity.

O12-28445	Buffer Culture medium additive Buffer Preservative Buffer Buffer
NEW 027-19905 NEW 027-19905 Bis-Tris 048-29665 044-29667 O68-05105 O68-	Culture medium additive Buffer Preservative Buffer
NEW 027-19905 Bis-Tris 6976-37-0 Less than 10 EU/g 500 g C ₆ H ₁₉ O ₉ P 3/2Mg·nH ₂ O C	additive Buffer Preservative Buffer
NEW 021-19925 Butyl Parahydroxybenzoate (Oxyben™ B) 94-26-8 JP (NF)	Preservative Buffer
NEW 027-19927 Parahydroxybenzoate (Oxyben™ B) 94-26-8 JP (NF)	Buffer
O27-19927 O(Oxyben™ B) 10 kg 500 g 10 kg 500 g 10 kg 500 g 10 kg 10 kg 500 g 10 kg 500 g 10 kg 500 g 7558-79-4 JPE Less than 2.5 EU/g 500 g 7558-79-4 JPE −*² − − − − − − − − − − − − − − − − − −	Buffer
O44-29667 Phosphate Anhydrous 7558-79-4 JPE Less than 2.5 EU/g 10 kg Na ₂ HPO ₄ 10 kg 110-17-8 JPE Less than 2.5 EU/g 10 kg 10 kg 20 kg C ₄ H ₄ O ₄ 110-17-8 JPE -*2 — 500 g C ₆ H ₁₀ O ₆ 110-17-8 JPE -*2 Less than 2.0 EU/g 500 g C ₆ H ₁₀ O ₆ NEW 086-10755 HEPES 7365-45-9 Less than 10 EU/g 500 g C ₈ H ₁₈ N ₂ O ₄ S 136-15105 Magnesium Stearate 557-04-0 JP *3 — 500 g C ₈ H ₁₈ N ₂ O ₄ S NEW 138-19565 MES 145224-94-8 — Less than 10 EU/g 500 g C ₈ H ₁₈ N ₂ O ₄ S 132-19421 Methyl Parahydroxybenzoate 99-76-3 JP (NF) ✓ — 5 kg C ₈ H ₈ O ₃ NEW 139-19615 MOPS 1132-61-2 — Less than 10 EU/g 500 g C ₇ H ₁₅ NO ₄ S 168-22792 Polysorbate 20 9005-64-5 JPE — 25 g — 169-21965 Potassium Acetate 127-08-2 JPE — 500 g CH ₃ COOK 169-29221 Propyl Parahydroxybenzoate O4-13-3 JP (NE) ✓ — 5 kg C H O HO NEW Propyl Parahydroxybenzoate O4-13-3 JP (NE) ✓ — 5 kg C H O HO NEW Propyl Parahydroxybenzoate O4-13-3 JP (NE) ✓ — 5 kg C H O HO NEW Propyl Parahydroxybenzoate O4-13-3 JP (NE) ✓ — 5 kg C H O HO NEW Propyl Parahydroxybenzoate O4-13-3 JP (NE) ✓ — 5 kg C H O HO NEW NEW Propyl Parahydroxybenzoate O4-13-3 JP NEW NEW NEW The section of the s	
O44-29667 Phosphate Anhydrous 7338-79-4 JPE Less than 2.5 EU/g 10 kg Na₂HPO₄	
Fumaric Acid 110-17-8 JPE -*2 -*2 Less than 2.0 EU/g 500 g C ₆ H ₁₀ O ₆	Buffer
064-05107	Burrer
NEW 086-10755 HEPES 7365-45-9 — Less than 10 EU/g 500 g C₂₀H₁₀N₂O₄S 136-15105 Magnesium Stearate 557-04-0 JP *3 — 500 g C₃₀H₁₀NQ₀₄S NEW 138-19565 MES 145224-94-8 — Less than 10 EU/g 500 g C₆H₁₃NO₄S·H₂O 132-19421 Methyl Parahydroxybenzoate (Oxyben® M) 99-76-3 JP (NF) ✓ — 5 kg C₆H₀O₃ NEW 139-19615 MOPS 1132-61-2 — Less than 10 EU/g 500 g C₀¬H₁₅NO₄S 168-22792 Polysorbate20 9005-64-5 JPE — 25 g — 169-21965 Potassium Acetate 127-08-2 JPE — 5 kg C H O	
136-15105 Magnesium Stearate 557-04-0 JP *3 — 500 g C₃₀H₁₀MgO₄ NEW 138-19565 MES 145224-94-8 — Less than 10 EU/g 500 g C₀号H₁₀NO₄S·H₂O 132-19421 Methyl Parahydroxybenzoate (Oxyben® M) MOPS 1132-61-2 — Less than 10 EU/g 500 g C₀H₁₅NO₄S 139-19615 MOPS 1132-61-2 — Less than 10 EU/g 500 g C₀¬H₁₅NO₄S 168-22792 Polysorbate20 9005-64-5 JPE — 25 g — 169-21965 Potassium Acetate 127-08-2 JPE — 500 g CH₃COOK 169-20221 Propyl Parahydroxybenzoate 94-12-3 JP (NE)	Buffer
NEW 138-19565 MES 145224-94-8 — Less than 10 EU/g 500 g C ₆ H ₁₃ NO ₄ S·H ₂ O 132-19421 Methyl Parahydroxybenzoate (Oxyben® M) 99-76-3 JP (NF) ✓ — 5 kg C ₈ H ₈ O ₃ NEW 139-19615 MOPS 1132-61-2 — Less than 10 EU/g 500 g C ₇ H ₁₅ NO ₄ S 168-22792 Polysorbate20 9005-64-5 JPE — 25 g — 169-21965 Potassium Acetate 127-08-2 JPE — 500 g CH ₃ COOK 169-20221 Propyl Parahydroxybenzoate 94-13-3 JP (NF) ✓ — 5 kg C H O	Buffer
132-19421	Lubricant
NEW 139-19615 MOPS 1132-61-2 Less than 10 EU/g 500 g C ₇ H ₁₅ NO ₄ S 168-22792 Polysorbate20 9005-64-5 JPE — 25 g — 169-21965 Potassium Acetate 127-08-2 JPE — 500 g CH ₃ COOK 169-20221 Propyl Parahydroxybenzoate 94-13-3 JP (NE) V — 5 kg C H O	Buffer
168-22792 Polysorbate20 9005-64-5 JPE — 25 g — 169-21965 Potassium Acetate 127-08-2 JPE — 500 g CH ₃ COOK 169-20221 Propyl Parahydroxybenzoate 94-12-3 JP (NE) — 5 kg C H O	Preservative
169-21965 Potassium Acetate 127-08-2 JPE — 500 g CH ₃ COOK	Buffer
Propyl Parahydroxybenzoate 04-13-3 IP (NIE) / - 5 kg C H O	Stabilizer
	Buffer
	Preservative
198-13265 Sodium Bisulfite 7631-90-5 JP -*2 - 500 g NaHSO ₃ St	Stabilizer · Buffer
194-13267 20 kg	
ΨΠ11-18-1 — ΠΔ99 Than 5Π ΕΠ/Λ	Culture medium
190-19185 5000 500 g	additive
194-14105 Sodium Dihydrogen 7558-80-7 JPE -*2 Less than 2.0 EU/g NaH, PO,	Buffer
190-14107 Phosphate Annydrous 10 kg 2 4	
197-13975 Sodium L-Tartrate 6106-24-7 JPE -*2 — 500 g C ₄ H ₄ Na ₂ O ₆ · 2H ₂ O	Buffer
193-14055 Sodium Pyrosulfite 7681-57-4 JP 500 g Na ₂ S ₂ O ₅	Preservative
199-14057 Solidar Yiosume 10 kg	
204-16055 Titanium Oxide 13463-67-7 JP 500 g	
903-40303 10 kg 10 kg	Excipient

 $[\]ensuremath{\star} 2$ These products are not listed in USP-NF and Ph.Eur.



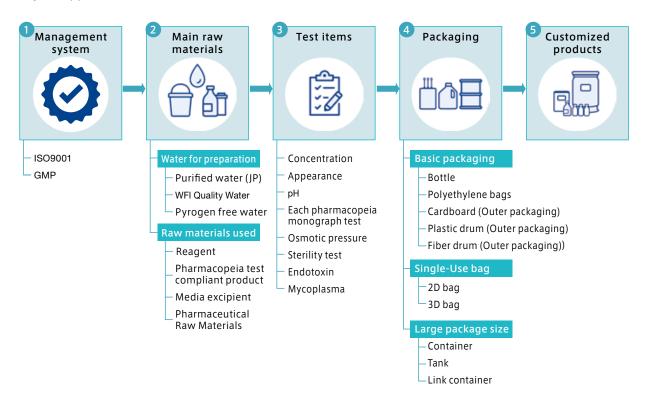
^{*3} These products are tested according to JP method. Some of the test items are harmonized to USP-NF Ph.Eur. For details, please check the product specifications.

[■]For more information, please visit website.

Top of our Raw material Pharmaceutical Industry website >ISO 9001 compliant Products CertiPro-L https://labchem-wako.fujifilm.com/us/pharmaceutical-raw-materials/product/certiprol.html

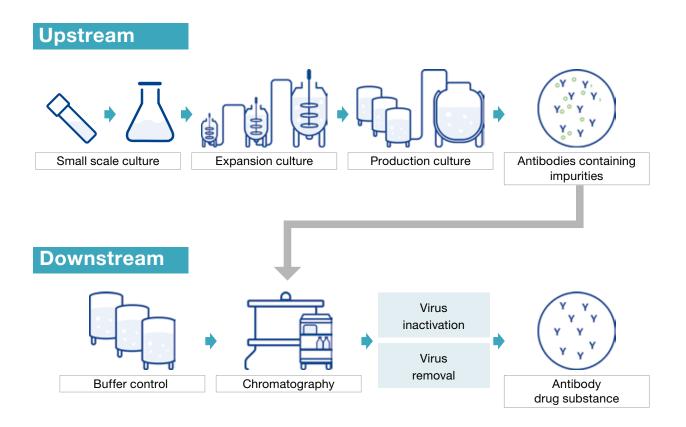
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Product examples by manufacturing process

Manufacturing process of antibody drugs



Upstream

Product Code	Product Name	Conformity	Package Size	CAS RN®
Amino acid				
075-06875	Glycine	JP, USP, Ph.Eur.	500 g	56-40-6
135-15555	Sodium L-Glutamate Hydrate	JPC,NF	500 g	6106 04 2
131-15557	30didili L-Gidtalliate riyulate	JPC,NF	20 kg	6106-04-3
Buffer				
049-34345	Dried Sodium Carbonate	JP, NF, Ph.Eur.	500 g	497-19-8
045-34347	Dried Socialii Carbonate	JP, NF, PH.Eur.	10 kg	491-19-0
197-18475	Sodium Bicarbonate	ID Db Cur	500 g	111 55 0
193-18477	Socium bicarbonate	JP, Ph.Eur.	10 kg	144-55-8
Other				
068-05105	Fumaric Acid	JPE	500 g	110-17-8
064-05107	Fumaric Acid	JPE	20 kg	110-17-0
196-19182	Sodium Dextran Sulfate 5000		25 g	9011-18-1
190-19185	Socium Dexiran Sunate 5000	_	500 g	9011-10-1

Downstream

Downstream				C/ C®
Product Code	Product Name	Conformity	Package Size	CAS RN®
Phosphate buf	fer			
048-29665	Disodium Hydrogen Phosphate Anhydrous	JPE	500 g	7558-79-4
044-29667			10 kg	
047-29015	Dibasic Potassium Phosphate	JPC, USP, Ph.Eur.	500 g	7758-11-4
043-29017		o. o, oo.,	20 kg	
047-34385	Dibasic Sodium Phosphate Hydrate	JP, USP, Ph.Eur.	500 g	10039-32-4
043-34387	Disaste soulum i mospilate riyarate	or, cor, rinzan.	10 kg	10000 02 1
136-14485	Monobasic Potassium Phosphate	JPC, NF, Ph.Eur.	500 g	7778-77-0
132-14487	Worldbasic Fotassium Friosphate	or o, rur, r m.Ear.	25 kg	1110110
194-14105	Sodium Dihydrogen Phosphate Anhydrous	JPE	500 g	7558-80-7
190-14107	Souldin Dinydrogen Phosphate Annydrous	OI L	10 kg	7 330-00-7
191-18495	Sodium Dibydrogon Dhoshbata Dibydrata	JPE, USP, Ph.Eur.	500 g	10470 05 0
197-18497	Sodium Dihydrogen Phosphate Dihydrate	JPE, USP, Ph.Eur.	10 kg	13472-35-0
Acetate buffer				
197-13235	Sodium Acetate Hydrate	JP	500 g	6131-90-4
Citrate buffer				
032-25245	Citric Acid Hydrate	JP, USP, Ph.Eur.	500 g	5949-29-1
197-18855			500 g	
193-18857	Sodium Citrate Hydrate	JP, USP, Ph.Eur.	10 kg	6132-04-3
Other Buffer				
012-28445	2-Amino-2-hydroxymethyl-1,3-		500 g	
018-28447	propanediol Hydrochloride	_	10 kg	1185-53-1
027-19905	Bis-Tris	_	500 g	6976-37-0
086-10755	HEPES	_	500 g	7365-45-9
138-19565	MES	_	500 g	145224-94-8
139-19615	MOPS	_	500 g	1132-61-2
203-21035			500 g	
209-21037	Trometamol	JPC, USP, Ph.Eur.	10 kg	77-86-1
Carbonate				
049-34345			500 g	
045-34347	Dried Sodium Carbonate	JP, NF, Ph.Eur.	10 kg	497-19-8
197-18475			500 g	
193-18477	Sodium Bicarbonate	JP, Ph.Eur.	10 kg	144-55-8
Acid/Base			10 1/9	
082-10475	Hydrochloric Acid	JP, Ph.Eur.	500 mL	7647-01-0
190-18465	Tryatocilione Acid	or, i ii.Lui.	500 mL	10-1-01-0
196-18467	Sodium Hydroxide	JP, NF, Ph.Eur.	10 kg	1310-73-2
			10 kg	
Salts	Calcium Chlorido Hydrata	JP	E00 ~	10035-04-8
030-19555	Calcium Chloride Hydrate		500 g	
163-22105	Potassium Chloride	JP	500 g	7447-40-7
194-18505	Sodium Chloride	JP, USP, Ph.Eur.	500 g	7647-14-5
190-18507			10 kg	
Surfactant		105		2225 -
168-22792	Polysorbate20	JPE	25 g	9005-64-5

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