







Pharmaceutical Raw Materials [CertiPro Series]

FUJIFILM Wako 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 in-house specifications. These products are classified into two categories depending on management standards: CertiPro (GMP-compliant products) and CertiPro-L (ISO9001-compliant products). Some products meet the specifications items in the USP 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 Japanese Pharmacopoeia 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 is validated	•	

*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
- · Chemical reagent (powder · liquid reagents)
- · Cell culture media reagent (powder · liquid media, process solution)
- · Clinical diagnostic reagent

■ Inspection and Audit History

Japanese authorities

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

Quality audits of Japanese and overseas clients: Conduct 5-10 quality audits per year



Amagasaki City, Hyogo Prefecture 23,332 m

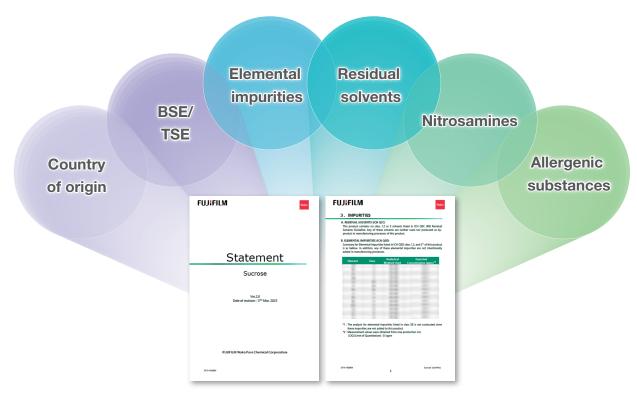
Number of employees

Certifications

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

Statement

FUJIFILM Wako 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 code, Manufacturing control standard, Grade

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

Customized Service

FUJIFILM Wako 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 Japanese Pharmacopoeia, the United States Pharmacopoeia, and the European Pharmacopoeia. Please contact us for details.



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



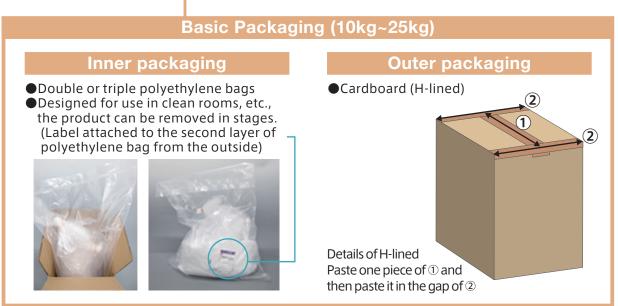
Top of our Raw material Pharmaceutical Industry website https://labchem-wako.fujifilm.com/us/pharmaceutical-raw-materials/index.html

Packaging

The CertiPro series is available in basic Package size of 500g, 10kg, 20kg or 25kg. 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, BST/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			Conformity			Package	_	Chemical	Principal	
Code	Product Name	Grade	USP- NF	Ph. Eur.	Endotoxin	Size	CAS RN®	Formula	Use	
030-19555	Calcium Chloride Hydrate	JP				500 g	10035-04-8	CaCl ₂ · 2H ₂ O	Stabilizer	
037-26035	Calcium Gluconate				Less than 1.5EU/g	500 g		C ₁₂ H ₂₂ CaO ₁₄	Calcium	
033-26037	Hydrate	JP				10 kg	299-28-5		strengthener	
032-25245	Citric Acid Hydrate	JP	✓	✓	Less than 8EU/g	500 g	5949-29-1	C ₆ H ₈ O ₇ • H ₂ O	Stabilizer • Buffer	
047-29015	Dibasic Potassium					500 g				
043-29017	Phosphate	JPC				20kg	7758/11/4	K ₂ HPO ₄	Buffer	
047-34385	Dibasic Sodium Phosphate				Less than	500g		Na ₂ HPO ₄	Buffer	
043-34387	Hydrate	JP	√	✓	0.2EU/g	10 kg	10039-32-4	· 12H ₂ O		
046-34615					Less than	500 g	6381-92-6	C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ • 2H ₂ O	Stabilizer	
042-34617	Disodium Edetate Hydrate	JP			10EU/g	20 kg				
049-34345					Les	Less than	500 g			
045-34347	Dried Sodium Carbonate	JP			10EU/g	10 kg	497-19-8	Na ₂ CO ₃	Buffer	
076-05705						500 g				
072-05707	Glucose	JP				10 kg	50-99-7	C ₆ H ₁₂ O ₆	Stabilizer	
077-05095	Glycine	JP			Less than 3.1EU/g	500 g	56-40-6	C ₂ H ₅ NO ₂	Stabilizer	
082-10475	Hydrochloric Acid	JP		✓	Less than 10EU/g	500 mL	7647-01-0	HCI	Stabilizer • Buffer	
121-06685	Lactose Hydrate	JP	*	:3	Less than 25EU/g	500 g	64044-51-5	C ₁₂ H ₂₂ O ₁₁ • H ₂ O	Excipients	
130-18925	Magnesium Sulfate Hydrate	JP			Less than	500 g	10034-99-8	MgSO ₄₁ • 7H ₂ O	Stabilizer	
133-14495	D-Mannitol	JP	*	:3	Ü	500 g	69-65-8	C ₆ H ₁₄ O ₆	Stabilizer	
136-14485	Monobasic Potassium					500 g				
132-14487	Phosphate	JPC				25 kg	7778-77-0	KH ₂ PO ₄	Buffer	

Product Code	Product Name	Grade	Confo USP- NF	Ph. Eur.	Endotoxin	Package Size	CAS RN®	Chemical Formula	Principal Use																
163-22105	Potassium Chloride	JP				500 g	7447-40-7	KCI	Buffer																
161-21925	Potassium Iodide	JP				500 g	7681-11-0	KI	Stabilizer • Soluble agent																
168-28515	Purified Glucose	JP	*	*3	Less than	500 g	50-99-7	C ₆ H ₁₂ O ₆	Stabilizer																
164-28517	Turried dideose	O1		2EU/g		10 kg	00 00 1	O ₆ i 1 ₁₂ O ₆	Stabilizei																
197-13235	Sodium Acetate Hydrate	JP				500 g	6131-90-4	$C_2H_3NaO_2$ $\cdot 3H_2O$	Buffer																
197-18475		15		✓	Less than	500 g			D "																
193-18477	Sodium Bicarbonate	JP		V	10EU/g	10 kg	144-55-8	NaHCO₃	Buffer																
194-18505					Less than	500 g			Stabilizer •																
190-18507	Sodium Chloride	JP	✓	✓	3.1EU/g	10 kg	7647-14-5	NaCl	Buffer																
197-18855		15			Less than	500 g	0.4.00.44.60	C ₆ H ₅ Na ₃ O ₇	Stabilizer •																
193-18857	Sodium Citrate Hydrate	JP	√	√	5.2EU/g	10 kg	6132/4/3	• 2H ₂ O	Buffer																
191-18495	Sodium Dihydrogen				Less than	500 g	13472-35-0	NaH₂PO₄ • 2H₂O	Buffer																
197-18497	Phosphate Dihydrate	JPE	✓	√	2.0EU/g	10kg																			
135-15555	Sodium L-Glutamate	IDO	4.15	_*4	Less than	500 g	C ₅ H ₈ NNaO ₄	Stabilizer •																	
131-15557	Hydrate	JPC	(NF)		3.9EU/g	20 kg	6106/4/3	• H ₂ O	Buffer																
190-18465		15	4.15		Less than	500 g	1010 70 0	NaOH	D. "																
196-18467	Sodium Hydroxide	JP	(NF)	√	10EU/g	10 kg	1310-73-2		Buffer																
196-19165	Sodium Thiosulfate	15											Less than	500 g	10100 17 7	Na ₂ S ₂ O ₃	Stabilizer •								
192-19167	Hydrate	JP			10EU/g	20 kg	10102-17-7	• 5H ₂ O	Solubilizer																
198-18385	Sugar	15	(A.15)	,	Less than	500 g	F7 F0 '	0.11.0	Otal III																
194-18387	Sucrose	JP	(NF)	√	2EU/g	10 kg	57-50-1	C ₁₂ H ₂₂ O ₁₁	Stabilizer																
203-21035				Less than	500 g	77.00		_																	
209-21037	Trometamol	JPC	✓	√	0.03IU/g	10 kg	77-86-1	C ₄ H ₁₁ NO ₃	Buffer																
213-01295	Una	15			Less than	500 g	F7.40.0	OLINIO	0 0 1 1																
219-01297	- Urea	JP			2.5EU/g	10 kg	57-13-6	CH₄N₂O	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, BST/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.

Product				Conformity			Package	Chemical	Principal		
	Code	Product Name	CAS RN®	Grade	USP- NF	Ph. Eur.	Endotoxin	Size	Formula	Use	
NEW	012-28445	2-Amino-2-hydroxymethyl-	1105 50 1				Max.	500 g	C ₄ H ₁₁ NO ₃	Buffer	
INLVV	018-28447	1,3-propanediol Hydrochloride	1185-53-1				10EU/g	10 kg	· HCI		
	048-29665	Disodium Hydrogen	7558-79-4	JPE			Less than	500 g	No LIDO	Buffer	
	044-29667	Phosphate Anhydrous	7008-79-4	JPE			2.5EU/g	10 kg	Na ₂ HPO ₄	Buller	
	068-05105	Fumaric Acid	110-17-8	JPE		_*2		500 g	0110	Buffer	
	064-05107	rumane Aciu	110-17-8	JI L				20 kg	C ₄ H ₄ O ₄	Dullei	
	075-05155	Glucono-δ-Lactone	90-80-2	JPE		_*2		500 g	C ₆ H ₁₀ O ₆	Buffer	
	136-15105	Magnesium Stearate	557-04-0	JP	*	:3		500 g	C ₃₆ H ₇₀ MgO ₄	Lubricant	
	857-40412	Methyl Parahydroxybenzoate	99-76-3	JP	*	:3		5 kg	C ₈ H ₈ O ₃	Preservative	
	168-22792	Polysorbate20	9005-64-5	JPE				25 g	_	Stabilizer	
	169-21965	Potassium Acetate	127-08-2	JPE				500 g	CH₃COOK	Buffer	
	857-40532	Propyl Parahydroxybenzoate	94-13-3	JP	*	:3		5 kg	C ₁₀ H ₁₂ O ₃	Preservative	
	198-13265	Codium Disulfito	7631-90-5	JP		*2		500 g	Nel ICO	Stabilizer •	
	194-13267	Sodium Bisulfite	7031-90-5	JP	_			20 kg	NaHSO₃	Buffer	
NEW	196-19182	Sodium Dextran Sulfate 5000	9011-18-1				Less than	25 g		Special use	
INLVV	190-19185	Sociali Dexilali Sullate 5000	9011-10-1					50EU/g	500 g		Special use
	194-14105	Sodium Dihydrogen	7558-80-7	JPE		_*2	Less than	500 g	NaH ₂ PO ₄	Buffer	
	190-14107	Phosphate Anhydrous	7330-00-7	JFL			2.0EU/g	10 kg	Nai 1 ₂ FO ₄	Dullei	
	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	Sadium Dyrosulfita	7681-57-4	JP				500 g	Na ₂ S ₂ O ₅	Preservative	
	199-14057 Sodium Pyrosulfite	Sociality Pyrosumite	1001-01-4	JF				10 kg	INa ₂ O ₂ O ₅	rieservative	
	204-16055	Titanium Oxide	13463-67-7	JP				500 g	TiO ₂	Excipients	
	903-40303	Titaliiulii Oxide	10400-07-7	JF				10 kg	10_2	Excipients	



^{*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.

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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

Semi-custom made liquid for biopharmaceutical

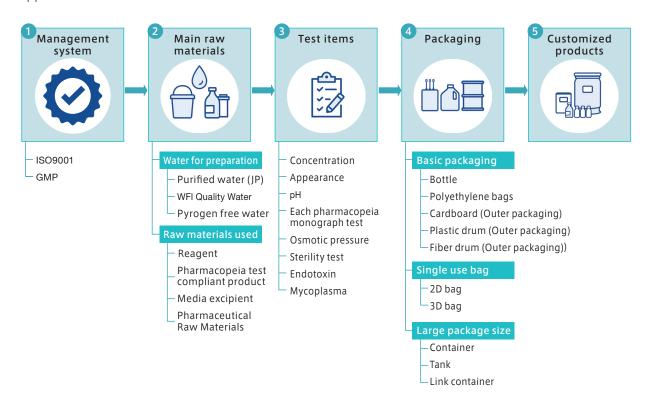
FUJIFILM Wako offer a lineup of prepared process solutions that can be used in biopharmaceutical manufacturing processes. You can choose your desired concentration, package size, and format.

Product Name	Concentration	Package Size
	0.5mol/L	
Sodium hydroxide solution	1mol/L	
Joidion	5mol/L	
Ethanol aqueous	20%	
solution	50%	10L : Plastic bottle
Acetic acid solution	40%	200L : Plastic drum
Hydrochloric acid	1mol/L	ZOOL . Flastic utulli
solution	0.1mol/L	Upon request, we can
	0.5mol/L	also fill single-use bags that are ready to use.
Sodium chloride solution	1mol/L	
Solution	2mol/L	
	0.5mol/L	
Phosphoric acid solution	1mol/L	
Solution	2mol/L	



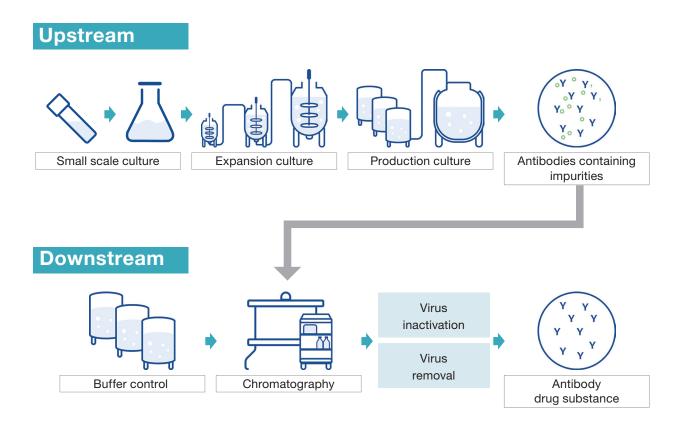
Customized liquid preparation service

FUJIFILM Wako provide process solutions tailored to customer requests. You can freely design the management system, raw materials used, test items, package size and format, etc. according to your application.



Product examples by manufacturing process

Manufacturing process of antibody drugs



Upstream

Product Code	Product Name	Conformity	Package Size	CAS RN®	
Amino acid					
077-05095	Glycine	JP	500g	56-40-6	
135-15555	Sodium L-Glutamate Hydrate	JPC,NF	500g	6106-04-3	
131-15557	Sociali L-Giutalilate riyulate	JFC,INF	20kg	0100-04-3	
Buffer					
049-34345	Dried Sodium Carbonate	JP	500g	497-19-8	
045-34347	Dried Socialii Carbonate	JF .	10kg		
197-18475	Sodium Bicarbonate	ID Db Cur	500g	144-55-8	
193-18477	Socium bicarbonate	JP, Ph.Eur.	10kg		
Other					
068-05105	Fumaric Acid	JPE	500g	110 17 0	
064-05107	Fumaric Acid	JPE	20kg	110-17-8	
196-19182	Sodium Dextran Sulfate 5000		25g	0011 10 1	
190-19185	Socium Dextran Sunate 5000	_	500g	9011-18-1	

Downstream

Product Code	Product Name	Conformity	Package Size	CAS RN®	
Tris					
012-28445	2-Amino-2-hydroxymethyl-1,3-		500g	1105 50 1	
018-28447	propanediol Hydrochloride	_	10kg	1185-53-1	
203-21035	Tuo manda mand	IDO LIOD DI E	500g	77.00.1	
209-21037	Trometamol	JPC, USP, Ph.Eur.	10kg	77-86-1	
Phosphate bu	ffer				
047-34385	Dibasia Cadicura Dhasanhata Hudusta	ID LIOD DIS Esse	500g	10000 00 1	
043-34387	Dibasic Sodium Phosphate Hydrate	JP, USP, Ph.Eur.	10kg	10039-32-4	
191-18495	Codinas Dibudus con Dhocabata Dibudusta	IDE LIOD DE E	500g	10470 05 0	
197-18497	Sodium Dihydrogen Phosphate Dihydrate	JPE, USP, Ph.Eur.	10kg	13472-35-0	
047-29015	511 . 5	100 1100 51 5	500g	7750 44 4	
043-29017	Dibasic Potassium Phosphate	JPC, USP, Ph.Eur.	20kg	7758-11-4	
136-14485		IDO NE DI E	500g	7770 77 0	
132-14487	Monobasic Potassium Phosphate	JPC, NF, Ph.Eur.	25kg	7778-77-0	
048-29665	5: 1: 1: 1	IDE	500g	7550 70 4	
044-29667	Disodium Hydrogen Phosphate Anhydrous	JPE	10kg	7558-79-4	
194-14105	_ ,, _,, _, _, ,, ,, ,,	10-	500g		
190-14107	Sodium Dihydrogen Phosphate Anhydrous	JPE	10kg	7558-80-7	
Acetate buffer					
197-13235	Sodium Acetate Hydrate	JP	500g	6131-90-4	
Citrate buffer					
032-25245	Citric Acid Hydrate	JP, USP, Ph.Eur.	500g	5949-29-1	
197-18855	Cadima Citata Hadaata		500g	0100 01 0	
193-18857	Sodium Citrate Hydrate	JP, USP, Ph.Eur.	10kg	6132-04-3	
Carbonate					
049-34345	B. 16 II. 6 II	15	500g	107.10.0	
045-34347	Dried Sodium Carbonate	JP	10kg	497-19-8	
197-18475	Codina Picada anata	ID DI E	500g	144.55.0	
193-18477	Sodium Bicarbonate	JP, Ph.Eur.	10kg	144-55-8	
Acid/Base					
082-10475	Hydrochloric Acid	JP, Ph.Eur.	500mL	7647-01-0	
190-18465	Coding Hadranida	ID AIF DI- F	500g	1010 70 0	
196-18467	Sodium Hydroxide	JP, NF, Ph.Eur.	10kg	1310-73-2	
Salts		<u></u>			
030-19555	Calcium Chloride Hydrate	JP	500g	10035-04-8	
163-22105	Potassium Chloride	JP	500g	7447-40-7	
194-18505	Coding Chlorid	ID 110D 51 5	500g	7047 44 7	
190-18507	Sodium Chloride	JP, USP, Ph.Eur.	10kg	7647-14-5	
	I .	I .	1		
Surfactant					

FUJIFILM Wako Laboratory Chemicals Site

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

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