







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

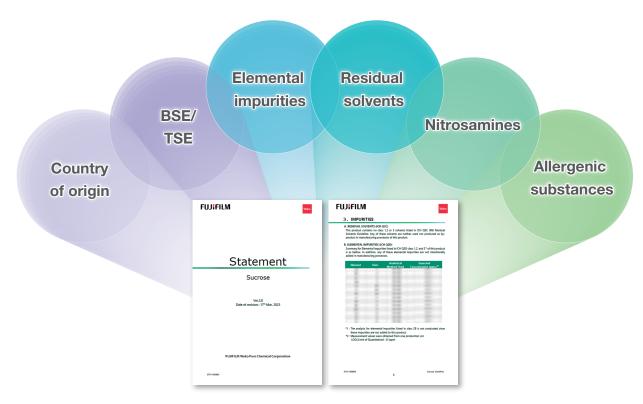
Number of employees

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

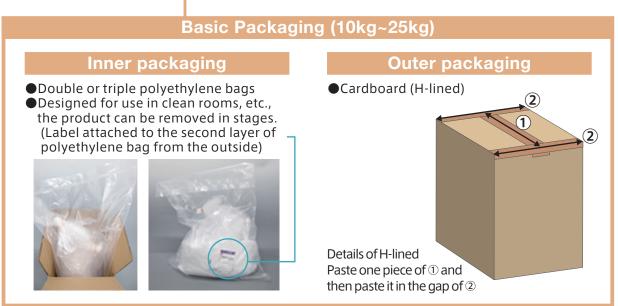


Packaging

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	500 g		C ₁₂ H ₂₂ CaO ₁₄	Calcium
033-26037	Hydrate	JP			1.5EU/g	10 kg	299-28-5	• H ₂ O	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	ID 0				500 g			5 %
043-29017	Phosphate	JPC				20kg	7758/11/4	K₂HPO₄	Buffer
047-34385	Dibasic Sodium Phosphate				Less than	500g		Na ₂ HPO ₄	5
043-34387	Hydrate	JP	✓	✓	0.2EU/g	10 kg	10039-32-4	· 12H ₂ O	Buffer
046-34615					Less than	500 g		C ₁₀ H ₁₄ N ₂ Na ₂ O ₈ · 2H ₂ O	Stabilizer
042-34617	Disodium Edetate Hydrate	JP			10EU/g	20 kg	6381-92-6		
049-34345	S. 15 II. 5 I	ID.			Less than	500 g	407.40.0	Na ₂ CO ₃	Buffer
045-34347	Dried Sodium Carbonate	JP			10EU/g	10 kg	497-19-8		
076-05705		ID.				500 g	50.00.7	0.11.0	Stabilizer
072-05707	Glucose	JP				10 kg	50-99-7	C ₆ H ₁₂ O ₆	
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 10EU/g	500 g	10034-99-8	MgSO ₄₁ · 7H ₂ O	Stabilizer
133-14495	D-Mannitol	JP	*	:3		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	r armed diacose	O1			2EU/g	10 kg	00 00 1	O ₆ 1 1 ₁₂ O ₆	Otabilizei			
197-13235	Sodium Acetate Hydrate	JP				500 g	6131-90-4	$C_2H_3NaO_2$ $\cdot 3H_2O$	Buffer			
197-18475	Codium Disculares	ID.		✓	Less than	500 g	144.55.0	N-UOO	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./4./0	C ₆ H ₅ Na ₃ O ₇	Stabilizer •			
193-18857	Sodium Citrate Hydrate	JP	✓	V	5.2EU/g	10 kg	6132/4/3	• 2H ₂ O	Buffer			
191-18495	Sodium Dihydrogen				Less than	500 g		NaH ₂ PO ₄				
	Phosphate Dihydrate	JPE	✓	√	2.0EU/g	10kg	13472-35-0	· 2H ₂ O	Buffer			
135-15555	Sodium L-Glutamate	15.0		_*4	Less than	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					Less than	Less than	Less than	Less than	500 g			
196-18467	Sodium Hydroxide	JP	(NF)	√	10EU/g	10 kg	1310-73-2	NaOH	Buffer			
196-19165	Sodium Thiosulfate				Less than	500 g		Na ₂ S ₂ O ₃	Stabilizer •			
	Hydrate	JP			10EU/g	20 kg	10102-17-7	• 5H ₂ O	Solubilizer			
198-18385					Less than	500 g						
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						
209-21037	Trometamol	JPC	√	√	0.03IU/g	10 kg	77-86-1	C ₄ H ₁₁ NO ₃	Buffer			
213-01295					Less than	500 g						
219-01297	Urea	JP			2.5EU/g	10 kg	57-13-6	CH ₄ N ₂ O	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-					Max.	500 g	C ₄ H ₁₁ NO ₃	D "		
INEVV	018-28447	1,3-propanediol Hydrochloride	1185-53-1				10EU/g	10 kg	· HCI	Buffer		
	048-29665	Disodium Hydrogen	7550 70 4	JPE			Less than	500 g	N- UDO	D. #		
	044-29667	Phosphate Anhydrous	7558-79-4	JPE			2.5EU/g	10 kg	Na ₂ HPO ₄	Buffer		
	068-05105	Fumaric Acid	110-17-8	JPE		_*2		500 g	0 4 0	Buffer		
	064-05107	rumanc Aciu	110-17-0	JFL				20 kg	$C_4H_4O_4$	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	Sodium Bisulfite	7631-90-5	JP		*2		500 g	NaHSO ₃	Stabilizer •		
	194-13267	Socium bisumte	7031-90-3	JF	_			20 kg	Na⊓SO ₃	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	7558-80-7 JF	330-00-7 JPE	JFL		_	2.0EU/g	10 kg	− Na⊓ ₂ PO ₄	Випег	
	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	Sodium Pyrosume	/001-5/-4	JF	JP	JP				10 kg	Na ₂ O ₂ O ₅	Freservative
	204-16055	Titanium Oxide	13463-67-7	JP				500 g	TiO ₂	Excipients		
	903-40303	Titalifulli Oxide	10400-07-7	JP				10 kg	110_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

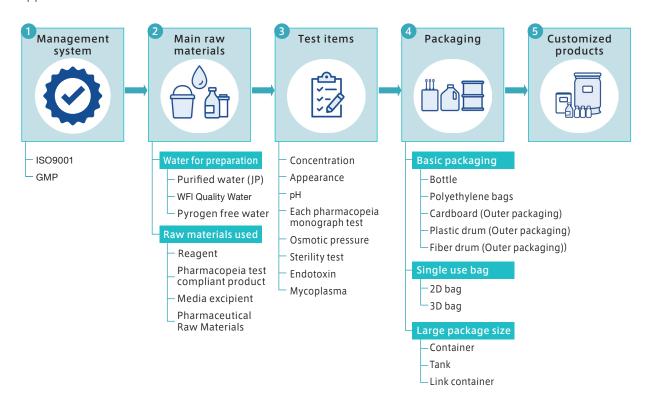
FUJIFILM Wako offer a lineup of prepared process solutions that can be used in biopharmaceutical manufacturing processes. You can choose your desired concentration, package size, and format.

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	



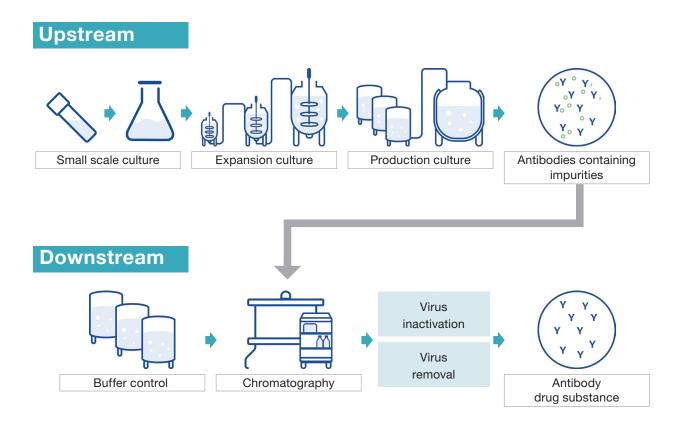
Customized liquid preparation service

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 Cox	500g	144 55 0	
193-18477	Socium bicarbonate	JP, Ph.Eur.	10kg	144-55-8	
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 Dexiran 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	T		500g	77.00.4
209-21037	Trometamol	JPC, USP, Ph.Eur.	10kg	77-86-1
Phosphate bu	ffer			
047-34385		ID LIOD DI E	500g	10000 00 1
043-34387	Dibasic Sodium Phosphate Hydrate	JP, USP, Ph.Eur.	10kg	10039-32-4
191-18495		IDE LIOD DI E	500g	10.170.05.0
197-18497	Sodium Dihydrogen Phosphate Dihydrate	JPE, USP, Ph.Eur.	10kg	13472-35-0
047-29015			500g	
043-29017	Dibasic Potassium Phosphate	JPC, USP, Ph.Eur.	20kg	7758-11-4
136-14485			500g	
132-14487	Monobasic Potassium Phosphate	JPC, NF, Ph.Eur.	25kg	7778-77-0
048-29665			500g	
044-29667	Disodium Hydrogen Phosphate Anhydrous	JPE	10kg	7558-79-4
194-14105			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			500g	
193-18857	Sodium Citrate Hydrate	JP, USP, Ph.Eur.	10kg	6132-04-3
Carbonate				
049-34345			500g	
045-34347	Dried Sodium Carbonate	JP	10kg	497-19-8
197-18475			500g	
193-18477	Sodium Bicarbonate	JP, Ph.Eur.	10kg	144-55-8
Acid/Base			J J	
Acid/Base 082-10475	Hydrochloric Acid	JP. Ph.Eur.	· ·	7647-01-0
082-10475	Hydrochloric Acid	JP, Ph.Eur.	500mL	7647-01-0
082-10475 190-18465	Hydrochloric Acid Sodium Hydroxide	JP, Ph.Eur. JP, NF, Ph.Eur.	500mL 500g	7647-01-0 1310-73-2
082-10475 190-18465 196-18467			500mL	
082-10475 190-18465 196-18467	Sodium Hydroxide	JP, NF, Ph.Eur.	500mL 500g 10kg	1310-73-2
082-10475 190-18465 196-18467 Salts 030-19555	Sodium Hydroxide Calcium Chloride Hydrate	JP, NF, Ph.Eur.	500mL 500g 10kg	1310-73-2 10035-04-8
082-10475 190-18465 196-18467 Salts 030-19555 163-22105	Sodium Hydroxide	JP, NF, Ph.Eur.	500mL 500g 10kg 500g 500g	1310-73-2
082-10475 190-18465 196-18467 5alts 030-19555 163-22105 194-18505	Sodium Hydroxide Calcium Chloride Hydrate	JP, NF, Ph.Eur.	500mL 500g 10kg 500g 500g 500g	1310-73-2 10035-04-8
082-10475 190-18465 196-18467 Salts 030-19555 163-22105	Sodium Hydroxide Calcium Chloride Hydrate Potassium Chloride	JP, NF, Ph.Eur. JP JP	500mL 500g 10kg 500g 500g	1310-73-2 10035-04-8 7447-40-7

FUJIFILM Wako Laboratory Chemicals Site

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

1-2 Doshomachi 3-Chome, Chuo-Ku, Osaka 540-8605, Japan Tel : +81 6 6203 3741 Fax : +81 6 6203 1999 ffwk-cservice@fujifilm.com

FUJIFILM Wako Chemicals U.S.A. Corporation

1600 Bellwood Road, Richmond, VA 23237, U.S.A Toll-Free(U.S.only):+1 877 714 1920 Tel:+1 804 271 7677 Fax:+1 804 271 7791 wkuslabchem@fujifilm.com

FUJIFILM Wako Chemicals (Hong Kong) Limited

Room 1111,11/F.International Trade Centre,11-19 Sha Tsui Road, Tsuen Wan, N,T.,Hong Kong Tel: +852-2799-9019 Fax: +852-2799-9808 wkhk.info@fujifilm.com

FUJIFILM Wako Chemicals Europe GmbH

Fuggerstr 12,41468 Neuss, Germany Tel: +49 2131 311 0 Fax: +49 2131 311 100 labchem_wkeu@fujifilm.com

FUJIFILM Wako (Guangzhou)Trading Corporation

Room 3003,30/F.,Dong Shan Plaza 69, Xian Lie Zhong Road, Guangzhou, 510095, China Tel: +86-20-8732-6381(Guangzhou) Tel: +86-21-6288-4751(Shingahal) Tel: +86-10-6413-6388(Beijing) whgz.info@fujifilm.com