

# Biopharmaceutical production chemicals and excipients

From discovery to clinical development and production, trust products from Avantor® to help you reach the market faster with new breakthroughs



# Setting science in motion to create a better world





**WE ARE AVANTOR®**

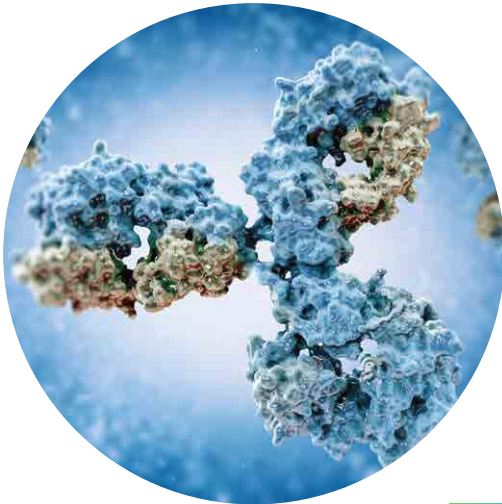
From discovery to delivery, Avantor is a global manufacturer and distributor of high-quality products, services and solutions to professionals in the life sciences, advanced technologies, and applied materials industries. We focus on the things that matter most to you, providing exceptional convenience, collaboration and customization to help ensure your success.

**BIOPHARMACEUTICALS:  
ENABLING BREAKTHROUGHS IN BIOLOGICS**

Today's biologics provide breakthrough solutions for many of the world's most challenging diseases and chronic conditions.

As a supplier for the largest biopharmaceutical companies in the world, we are trusted to provide the products, services and solutions needed to quickly move from the small-scale bench, scaling up in the pilot plant, to full production, reaching the market faster with new scientific breakthroughs in medicine.

When you work with us, you gain a strategic partner with customizable manufacturing solutions, high-quality cGMP materials and specialized services. Backed by extensive regulatory and technical process expertise, we play a vital role in helping to increase drug yield, lot-to-lot consistency and, most importantly, drive results that benefit the world.



# Proven brands that enhance your processes



## J.T.BAKER® CHEMISTRIES

Our J.T.Baker® brand is known around the world for unsurpassed reproducibility, consistency and application optimization.

## MACRON FINE CHEMICALS™ PRODUCTS

Macron Fine Chemicals™ products represent consistency and repeatability, adding value across a wide range of applications.

# Trust Avantor to help you overcome unique bioprocessing challenges

## QUALITY & CHOICE

### PRODUCTION CHEMICALS

Avantor-manufactured and distributed products provide structured choice and risk mitigation

Global cGMP manufacturing capabilities backed by global change notification programs for regulated materials

Lot-to-lot consistency and comprehensive supportive testing from our brands of high-purity direct materials.

## EXPERTISE

Field-based specialists to help you select the most appropriate direct materials for your processes

Data-driven answers to your toughest biopharmaceutical challenges—from gene to protein to final formulation.

## CONVENIENCE

Global cGDP logistics footprint ensures product integrity and prompt delivery globally

Special logistics and supply chain services, including:

- Product certifications provided electronically and/or with shipments
- Customer-reserved inventory to help enable assurance of supply
- Custom pallet programs and barcoded labeling

Global e-commerce platform enables you to get what you need, when you need it

## CUSTOMIZATION

Custom cGMP manufacturing capabilities of direct materials for BioPharma manufacturing—from small scale to high volume manufacturing.

Addressing your custom purity needs, new product development and synthesis from cell culture supplements, elemental impurity controlled buffers, through novel excipients

Wide range of packaging alternatives to fit your process for both powder and liquid materials

# Quality and supply chain security

Our quality programs use a customer-centric approach designed to decrease complexity and fully satisfy the quality, regulatory and security demands you face every day.

Beyond our own operations, we have robust supply chains and security programs with our suppliers. We track and share how we're doing so you may benefit from enhanced regulatory compliance and minimized risk to drive cost-effectiveness and faster time-to-market for products.

- Global network of cGMP and cGDP facilities: Our cGMP facilities offer manufacturing, packaging and subdivision capabilities to meet your needs. Our distribution facilities have been certified and comply with the International Pharmaceutical Excipients Council's (IPEC) guidelines for Good Distribution Practices (cGDP).
- Change notification: customer notification through the Avantor Management of Change and Change Notification Service (CNS) programs help you stay in control of changing situations and minimize risks associated with changes to manufacturing processes.

- Supplier auditing and integrity: we conduct risk-based audits to understand the capabilities of new suppliers and collaborate with suppliers to promptly address corrective and preventive actions (CAPAs), should they arise.
- Collaborative planning, forecasting and replenishment (CPFR): we provide service level reports on assurance of supply through our Critical Materials Care team.
- Documentation: Certificates of Conformance, Quality or Analysis are available with SDS documents on [avantorsciences.com](http://avantorsciences.com).



# Change notification programs



## AVANTOR MANAGEMENT OF CHANGE PROGRAM

Change is a constant in today's global manufacturing environment. The Avantor Management of Change (MOC) program puts key information into your hands for J.T.Baker® and Macron Fine Chemicals™ brand products so you can stay in control of changing situations and minimize risks associated with changes to manufacturing processes.

### AVANTOR MANAGEMENT OF CHANGE (MOC) PROGRAM: NOTIFICATION CATEGORIES

	HR	R	RL	NI	N
<b>MOC Category</b>	Highly Regulated	Regulated	Regulated Limited	Non-Regulated with Information	Non-Regulated
<b>Bulk Pharmaceutical</b>	Yes	Yes	Regional Markets	No	No
<b>Intended/Potential Use</b>	API, BPE	BPE	Processing Aids, Food, Nutraceuticals, Cosmetics, Bulk Pharmaceutical Chemicals	Reagents	Reagents
<b>Grades</b>	USP, NF, EP, BP, JP	USP, NF, EP, BP, JP	IP, EP, FCC*	ACS, Reagents	ACS, Reagents
<b>Notification of Change</b>	Yes, level 2	Yes, level 2	Yes, level 2	Limited if registered in MOC database	Non-regulated
<b>Industry Reference</b>	IPEC, Q7	IPEC, Q7	FCC, ID, EU	None	None
<b>Regulating Body</b>	FDA, cGMP	FDA, cGMP	IFPA, EU, Food GMP	None	None

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# Biopharmaceutical products

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## Avantor® biopharmaceutical products for fermentation and cell culture

Product	Brand	Grade	cGMP	Endotoxin Tested	Cat. No.	Sizes*
<b>Amino Acids</b>						
N-Acetyl-L-Arginine	J.T.Baker®	Technical	No	Yes	2097†	100 g 25 kg
L-Arginine	J.T.Baker®	Multi-Compendial	Yes	Yes	2066	1 kg 50 kg
L-Arginine	Macron Fine Chemicals™	Multi-Compendial	Yes	Yes	4932	1 kg 50 kg
L-Arginine Hydrochloride	J.T.Baker®	Multi-Compendial	Yes	Yes	2067	1 kg 50 kg
L-Arginine Hydrochloride	Macron Fine Chemicals™	Multi-Compendial	Yes	Yes	4930	1 kg 50 kg
L-Asparagine Monohydrate	J.T.Baker®	FCC	No	Yes	2068	1 kg 12 kg
L-Cysteine Hydrochloride Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	2071	100 g 1 kg
L-Cystine	J.T.Baker®	Multi-Compendial	Yes	Yes	2073	1 kg —
L-Glutamic Acid	J.T.Baker®	Multi-Compendial	Yes	Yes	2077	1 kg —
L-Glutamine	J.T.Baker®	USP-FCC	Yes	Yes	2078	1 kg 50 kg
Glycine	J.T.Baker®	USP-FCC	Yes	No	0581	500 g 12 kg
L-Histidine	J.T.Baker®	Multi-Compendial	Yes	Yes	2080	100 g 12 kg
L-Histidine	Macron Fine Chemicals™	Multi-Compendial	Yes	Yes	4935	1 kg 50 kg
L-Histidine Monohydrochloride	J.T.Baker®	Multi-Compendial	Yes	Yes	2081	1 kg 50 kg
L-Histidine Monohydrochloride	Macron Fine Chemicals™	Multi-Compendial	Yes	Yes	4942	1 kg 50 kg
L-Isoleucine	J.T.Baker®	Multi-Compendial	Yes	Yes	2082	100 g 12 kg
L-Leucine	J.T.Baker®	Multi-Compendial	Yes	Yes	2083	1 kg 12 kg
L-Lysine Hydrochloride	J.T.Baker®	Multi-Compendial	Yes	Yes	2084	1 kg 50 kg
L-Methionine	J.T.Baker®	Multi-Compendial	Yes	Yes	2085	100 g 12 kg
L-Phenylalanine	J.T.Baker®	Multi-Compendial	Yes	Yes	2086	1 kg 12 kg
L-Proline	J.T.Baker®	Multi-Compendial	Yes	Yes	2087	1 kg —
L-Proline	J.T.Baker®	Multi-Compendial	Yes	Yes	2096	50 kg —
L-Serine	J.T.Baker®	Multi-Compendial	Yes	Yes	2088	1 kg 12 kg
L-Threonine	J.T.Baker®	Multi-Compendial	Yes	Yes	2089	1 kg 12 kg
L-Tryptophan	J.T.Baker®	Multi-Compendial	Yes	Yes	2092	1 kg 12 kg
L-Tyrosine	J.T.Baker®	Multi-Compendial	Yes	Yes	2093	1 kg —
L-Tyrosine Disodium Salt Dihydrate	J.T.Baker®	BAKER ANALYZED™ Reagent	No	Yes	2094	100 g 12 kg
L-Valine	J.T.Baker®	Multi-Compendial	Yes	Yes	2095	100 g 12 kg
L-Valine	Macron Fine Chemicals™	Multi-Compendial	Yes	Yes	4936	1 kg 50 kg
<b>Minerals and Nutrients</b>						
Magnesium Sulfate, Anhydrous	Macron Fine Chemicals™	USP	Yes	No	5053	10 kg 200 lb
Magnesium Sulfate Heptahydrate	Macron Fine Chemicals™	GenAR	Yes	No	5691	100 lb —
Potassium Iodide	Macron Fine Chemicals™	GenAR	Yes	No	1115	500 g 50 kg
Pyridoxine Hydrochloride	J.T.Baker®	USP-FCC	Yes	No	3343	5 g 100 g
Sodium Chloride	J.T.Baker®	Multi-Compendial	Yes	Yes	3627	500 g 350 lb
Sodium Chloride	J.T.Baker®	Multi-Compendial	Yes	No	3301	500 g 50 kg
Sodium Phosphate Monobasic Monohydrate	J.T.Baker®	USP-FCC	Yes	No	3820	500 g 100 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP-FCC	Yes	No	3827	500 g 12 kg
Sodium Phosphate Dibasic Dodecahydrate	J.T.Baker®	BAKER ANALYZED™ Reagent	No	No	3822	500 g 12kg
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3803	500 g 200 lb
Sodium Phosphate Tribasic Dodecahydrate	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	3836	500 g 12kg
Zinc Sulfate	Macron Fine Chemicals™	USP-FCC	Yes	No	8872	2.5 kg 100 lb
<b>pH Adjusters (Acid)</b>						
Acetic Acid, Glacial	J.T.Baker®	Multi-Compendial	Yes	No	9526	500 ml 450 lb
Citric Acid, Anhydrous	J.T.Baker®	Multi-Compendial	Yes	No	0127	2.5 kg 12 kg
Citric Acid Monohydrate	J.T.Baker®	Multi-Compendial	Yes	No	0115	500 g 50 kg
Hydrochloric Acid, 36.5–38.0%	Macron Fine Chemicals™	NF-FCC-ACS	Yes	No	2612	500 ml 500 lb
Hydrochloric Acid, 6,0N WFI	J.T.Baker®	Biotech Reagent	Yes	No	0347	1 l —
Nitric Acid	J.T.Baker®	NF	Yes	No	9607	2.5 l —
Phosphoric Acid	J.T.Baker®	NF-FCC	Yes	No	0262	4 l 200 lb
Sulfuric Acid	J.T.Baker®	Multi-Compendial	Yes	No	9671	500 ml 400 lb
<b>pH Adjusters (Base)</b>						
Ammonia Solution, Strong	J.T.Baker®	Multi-Compendial	Yes	No	9736	2.5 l 360 lb
Ammonium Hydroxide, 28,0–30,0%	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	9721	500 ml 4 l
Potassium Hydroxide 45% Solution	J.T.Baker®	BAKER ANALYZED™ Reagent	No	No	3143	500 ml 19 l
Sodium Bicarbonate	J.T.Baker®	Multi-Compendial	Yes	Yes	3510	2.5 kg 100 lb
Sodium Carbonate, Anhydrous	J.T.Baker®	NF-FCC	Yes	No	3605	500 g 100 lb
Sodium Carbonate Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3603	12 kg 100 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF-FCC	Yes	No	3728	12 kg 220 lb
Sodium Hydroxide, 1,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0388	19 l 200 l

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## BIOPHARMACEUTICAL PRODUCTS

Continued from previous page

Product	Brand	Grade	cGMP	Endotoxin Tested	Cat. No.	Sizes*	
Sodium Hydroxide, 2,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0389	19 l	—
Sodium Hydroxide, 5,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0895	19 l	—
Sodium Hydroxide, 10N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0312	1 l	19 l
Sodium Hydroxide, 25% Solution	J.T.Baker®	Biotech Reagent	Yes	Yes	2613	2.5 l	16,000 l
Sodium Hydroxide, 25% Solution	J.T.Baker®	Biotech Reagent	Yes	Yes	0338	19 l	200 l
Sodium Hydroxide, 50% Solution	J.T.Baker®	Biotech Reagent	Yes	No	0339	4 l	1135 l
Sodium Hydroxide, 50% WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0897	19 l	998 l
<b>Protein Expression Inducing Agents</b>							
IPTG	Macron Fine Chemicals™	GenAR	No	No	V263	1 g	1 kg
IPTG	J.T.Baker®	Biotech Reagent	Yes	Yes	V264	10 g	1 kg
<b>Sugars</b>							
Dextrose, Anhydrous	J.T.Baker®	Multi-Compendial	Yes	Yes	1920	2.5 kg	200 lb
Dextrose Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	1913	5 kg	12 kg
Galactose	J.T.Baker®	Multi-Compendial	Yes	Yes	6322	1 kg	12 kg
Lactose Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	2250	2.5 kg	12 kg
Mannitol, Powder	J.T.Baker®	Multi-Compendial	Yes	Yes	2553	500 g	50 kg
Sorbitol	J.T.Baker®	Multi-Compendial	Yes	Yes	3449	5 kg	50 kg
Sucrose, Beet Derived	J.T.Baker®	Multi-Compendial	Yes	Yes	6321	1 kg	12 kg
Sucrose, Cane Derived	J.T.Baker®	Multi-Compendial	Yes	Yes	6320	1 kg	12 kg
Sucrose, Crystal	J.T.Baker®	Multi-Compendial	Yes	Yes	4074	500 g	90 kg
Sucrose, Crystal	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	4072	500 g	100 lb
Trehalose	J.T.Baker®	Multi-Compendial	Yes	Yes	6324	1 kg	12 kg

\*Note: products shown may not be readily available in all regions without prior arrangement. Contact your Avantor account manager to confirm availability.

\*Additional sizes may be available. For the latest product information or more details, contact your Avantor account manager.

## Avantor® biopharmaceutical products for use in harvest processing steps

Product	Brand	Grade	cGMP	Endotoxin Tested	Cat. No.	Sizes*
<b>Denaturants</b>						
Guanidine Hydrochloride	J.T.Baker®	Biotech Reagent	No	No	4077	12 kg —
Guanidine Hydrochloride	Macron Fine Chemicals™	GenAR	No	No	7716	500 g 12 kg
Guanidine Hydrochloride, XTL	Macron Fine Chemicals™	GenAR	Yes	No	0507	5 kg 50 kg
Guanidine Hydrochloride, 6 M Solution	Macron Fine Chemicals™	GenAR	Yes	No	0563	4 l 200 l
Guanidine Thiocyanate	J.T.Baker®	Biotech Reagent	No	No	4083	500 g 12 kg
Urea	J.T.Baker®	Multi-Compendial	Yes	No	4203	12 kg 50 kg
Urea	J.T.Baker®	USP	Yes	No	4206	500 g 50 kg
Urea	J.T.Baker®	USP	Yes	Yes	4208	50 kg —
<b>Disulfide Reducing Agents</b>						
DTT	J.T.Baker®	Biotech Reagent	Yes	No	F781	1 kg —
<b>pH Adjusters (Acid)</b>						
Acetic Acid, Glacial	J.T.Baker®	Multi-Compendial	Yes	No	9526	500 ml 450 lb
Citric Acid, Anhydrous	J.T.Baker®	Multi-Compendial	Yes	No	0127	2,5 kg 12 kg
Citric Acid Monohydrate	J.T.Baker®	Multi-Compendial	Yes	No	0115	500 g 50 kg
Hydrochloric Acid, 36,5–38,0%	Macron Fine Chemicals™	NF-FCC-ACS	Yes	No	2612	500 ml 500 lb
Nitric Acid	J.T.Baker®	NF	Yes	No	9607	2.5 l —
Phosphoric Acid	J.T.Baker®	NF-FCC	Yes	No	0262	4 l 200 lb
Sulfuric Acid	J.T.Baker®	Multi-Compendial	Yes	No	9671	500 ml 4050 lb
<b>pH Adjusters (Base)</b>						
Ammonia Solution, Strong	J.T.Baker®	Multi-Compendial	Yes	No	9736	2,5 l 360 lb
Ammonium Hydroxide, 28,0–30,0%	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	9721	500 ml 4 l
Potassium Hydroxide, 45% Solution	J.T.Baker®	BAKER ANALYZED™ Reagent	No	No	3143	500 ml 19 l
Sodium Bicarbonate	J.T.Baker®	Multi-Compendial	Yes	Yes	3510	2,5 kg 100 lb
Sodium Carbonate, Anhydrous	J.T.Baker®	NF-FCC	Yes	No	3605	500 g 100 lb
Sodium Carbonate Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3603	12 kg 100 lb
Sodium Hydroxide, 1,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0389	19 l 200 l
Sodium Hydroxide, 2,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0390	19 l —
Sodium Hydroxide, 5,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0895	19 l —
Sodium Hydroxide, 10N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0312	1 l 19 l
Sodium Hydroxide, 25% Solution	J.T.Baker®	Biotech Reagent	Yes	Yes	0338	19 l 200 l
Sodium Hydroxide, 25% Solution	J.T.Baker®	Biotech Reagent	Yes	Yes	2613*	2,5 l 16,000 l
Sodium Hydroxide, 50% Solution	J.T.Baker®	Biotech Reagent	Yes	No	0339	4 l 1135 l
Sodium Hydroxide, 50% WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0897	19 l 998 l
Sodium Hydroxide, Pellets	J.T.Baker®	NF-FCC	Yes	No	3728	12 kg 220 lb
<b>Salts</b>						
Ammonium Sulfate	J.T.Baker®	FCC-ACS	No	No	0795	25 kg 325 lb
Ammonium Sulfate	J.T.Baker®	NF	Yes	Yes	0798	500 g 100 kg
Edetate Disodium	J.T.Baker®	Multi-Compendial	Yes	Yes	8995	12 kg 100 lb
Potassium Phosphate Dibasic	J.T.Baker®	Multi-Compendial	Yes	Yes	3250	500 g 100 kg
Potassium Phosphate Monobasic	J.T.Baker®	Multi-Compendial	Yes	Yes	3248	500 g 12 kg
Sodium Acetate, Anhydrous	J.T.Baker®	USP-FCC	Yes	No	3473	2.5 kg 200 lb
Sodium Acetate Trihydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3461	500 g 275 lb
Sodium Chloride	J.T.Baker®	Multi-Compendial	Yes	Yes	3627	500 g 350 lb
Sodium Chloride	J.T.Baker®	Multi-Compendial	Yes	No	3301	500 g 50 kg
Sodium Citrate Dihydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3647	500 g 100 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP-FCC	Yes	No	3827	500 g 12 kg
Sodium Phosphate Dibasic Dodecahydrate	J.T.Baker®	BAKER ANALYZED™ Reagent	No	No	3822	500 g 12 kg
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3803	500 g 200 lb
Sodium Phosphate Monobasic Monohydrate	J.T.Baker®	USP-FCC	Yes	No	3820	500 g 100 lb

\*Note: products shown may not be readily available in all regions without prior arrangement. Contact your Avantor account manager to confirm availability.

\*Additional sizes may be available. For the latest product information or more details, contact your Avantor account manager.

## Avantor® biopharmaceutical products for use in purification processing steps

Product	Brand	Grade	cGMP	Endotoxin Tested	Cat. No.	Sizes*	
<b>Biobuffers &amp; TRIS</b>							
HEPES, Free Acid	J.T.Baker®	Ultrapure Bioreagent	No	No	4808	5 kg	25 kg
HEPES Sodium Salt	J.T.Baker®	Ultrapure Bioreagent	No	No	4809	5 kg	10 kg
MES	J.T.Baker®	Purified	No	No	4220*	10 kg	25 kg
MES Monohydrate, Free Acid	J.T.Baker®	Ultrapure Bioreagent	No	No	4812	5 kg	25 kg
MES Sodium Salt	J.T.Baker®	Ultrapure Bioreagent	No	No	4813	500 g	10 kg
MOPS, Purified	J.T.Baker®	Ultrapure Bioreagent	No	No	4810	1 kg	50 kg
TRIS Hydrochloride	J.T.Baker®	Ultrapure Bioreagent	No	No	4103	250 g	50 kg
TRIS Hydrochloride	J.T.Baker®	Ultrapure Bioreagent	Yes	No	4108	12 kg	—
TRIS Hydrochloride	J.T.Baker®	Biotech Reagent	Yes	Yes	4106	500 g	50 kg
Tromethamine (TRIS Base)	J.T.Baker®	Ultrapure Bioreagent	No	No	4109	500 g	50 kg
Tromethamine (TRIS Base)	J.T.Baker®	Multi-Compendial	Yes	Yes	4102	500 g	50 kg
<b>Chromatography Media Sugars</b>							
PolyPEI	J.T.Baker®	Spherical Polymethacrylate	IEX	No	7585	35 µm	500 Å
PolyABX	J.T.Baker®	Spherical Polymethacrylate	IEX	No	7586	35 µm	500 Å
PolyCSX	J.T.Baker®	Spherical Polymethacrylate	IEX	No	7587	35 µm	500 Å
PolyQUAT	J.T.Baker®	Spherical Polymethacrylate	IEX	No	7603	35 µm	500 Å
PolyHi-Propyl	J.T.Baker®	Spherical Polymethacrylate	HIC	No	7588	35 µm	500 Å
<b>Cleaning Reagents</b>							
Guanidine Hydrochloride, XTL	Macron Fine Chemicals™	GenAR	Yes	No	0507	5 kg	50 kg
Guanidine Hydrochloride, 6 M Solution	Macron Fine Chemicals™	GenAR	Yes	No	0563	4 l	200 l
Guanidine Thiocyanate	J.T.Baker®	Biotech Reagent	No	No	4083	500 g	12 kg
Urea	J.T.Baker®	Multi-Compendial	Yes	No	4203	12 kg	50 kg
<b>pH Adjusters (Acid)</b>							
Acetic Acid, Glacial	J.T.Baker®	Multi-Compendial	Yes	No	9526	500 ml	450 lb
Citric Acid, Anhydrous	J.T.Baker®	Multi-Compendial	Yes	No	0127	2,5 kg	12 kg
Citric Acid Monohydrate	J.T.Baker®	Multi-Compendial	Yes	No	0115	500 g	50 kg
Hydrochloric Acid, 36,5–38,0%	Macron Fine Chemicals™	NF-FCC-ACS	Yes	No	2612	500 ml	500 lb
Nitric Acid	J.T.Baker®	NF	Yes	No	9607	2,5 l	—
Phosphoric Acid	J.T.Baker®	NF-FCC	Yes	No	0262	4 l	200 lb
Sulfuric Acid	J.T.Baker®	Multi-Compendial	Yes	No	9671	500 ml	4050 lb
<b>pH Adjusters (Base)</b>							
Ammonia Solution, Strong	J.T.Baker®	Multi-Compendial	Yes	No	9736	2,5 l	360 lb
Ammonium Hydroxide, 28,0–30,0%	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	9721	500 ml	4 l
Potassium Hydroxide, 45% Solution	J.T.Baker®	BAKER ANALYZED™ Reagent	No	No	3143	500 ml	19 l
Sodium Bicarbonate	J.T.Baker®	Multi-Compendial	Yes	Yes	3510	2,5 kg	100 lb
Sodium Carbonate, Anhydrous	J.T.Baker®	NF-FCC	Yes	No	3605	500 g	100 lb
Sodium Carbonate Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	3603	12 kg	100 lb
Sodium Hydroxide, 1,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0388	19 l	200 l
Sodium Hydroxide, 2,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0389	19 l	—
Sodium Hydroxide, 5,0N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0895	19 l	—
Sodium Hydroxide, 10N WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0312	1 l	19 l
Sodium Hydroxide, 25% Solution	J.T.Baker®	Biotech Reagent	Yes	Yes	0338	19 l	200 l
Sodium Hydroxide, 25% Solution	J.T.Baker®	Biotech Reagent	Yes	Yes	2613	2,5 l	16000 l
Sodium Hydroxide, 50% Solution	J.T.Baker®	Biotech Reagent	Yes	No	0339	4L	1135 l
Sodium Hydroxide, 50% WFI	J.T.Baker®	Biotech Reagent	Yes	Yes	0897	19 l	998 l
Sodium Hydroxide, Pellets	J.T.Baker®	NF-FCC	Yes	No	3728	12 kg	220 lb

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Product	Brand	Grade	cGMP	Endotoxin Tested	Cat. No.	Sizes*
<b>Salts</b>						
Ammonium Sulfate	J.T.Baker®	NF	Yes	Yes	<b>0798</b>	500 g 100 kg
EDTA Disodium	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>8995</b>	12 kg 100 lb
Potassium Phosphate Dibasic	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>3250</b>	500 g 100 kg
Potassium Phosphate Monobasic	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>3248</b>	500 g 12 kg
Sodium Acetate, Anhydrous	J.T.Baker®	USP-FCC	Yes	No	<b>3473</b>	2,5 kg 200 lb
Sodium Acetate Trihydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>3461</b>	500 g 275 lb
Sodium Chloride	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>3627</b>	500 g 350 lb
Sodium Chloride	J.T.Baker®	Multi-Compendial	Yes	No	<b>3301</b>	500 g 50 kg
Sodium Citrate Dihydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>3647</b>	500 g 100 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP-FCC	Yes	No	<b>3827</b>	500 g 12 kg
Sodium Phosphate, Dibasic Dodecahydrate	J.T.Baker®	BAKER ANALYZED™ Reagent	No	No	<b>3822</b>	500 g 12 kg
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	<b>3803</b>	500 g 200 lb
Sodium Phosphate Monobasic Monohydrate	J.T.Baker®	USP-FCC	Yes	No	<b>3820</b>	500 g 100 lb
Sodium Phosphate Tribasic Dodecahydrate	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	<b>3836</b>	500 g 12 kg

## Avantor® biopharmaceutical products for use in formulation, fill & finish processing steps

Product	Brand	Grade	cGMP	Endotoxin Tested	Cat. No.	Sizes*	
<b>CIP/SIP</b>							
Citric Acid, 50%	J.T.Baker®	Biotech Reagent	No	Yes	0341	19 l	1,170 l
Hydrochloric Acid, 0,5N	J.T.Baker®	Biotech Reagent	No	Yes	0335	19 l	—
Hydrochloric Acid, 1,0N	J.T.Baker®	Biotech Reagent	No	Yes	0325	19 l	200 l
Hydrochloric Acid, 2,0N	J.T.Baker®	Biotech Reagent	No	Yes	0336	4 l	1,000 l
Hydrochloric Acid, 6,0N	J.T.Baker®	Biotech Reagent	No	Yes	0327	1 l	200 l
Hydrochloric Acid, 25%	J.T.Baker®	Biotech Reagent	No	Yes	0323*	19 l	—
Phosphoric Acid, Diluted, 10% (w/v)	J.T.Baker®	N.F, Multi-Compendial	No	Yes	5683	19 l	200 l
Phosphoric Acid, 33%	J.T.Baker®	Biotech Reagent	No	Yes	0334	19 l	940 l
Sodium Hydroxide, 0,5N	J.T.Baker®	Biotech Reagent	Yes	Yes	0329	19 l	200 l
Sodium Hydroxide, 1,0N	J.T.Baker®	Biotech Reagent	Yes	Yes	0328	20 l	200 l
Sodium Hydroxide, 5N	J.T.Baker®	Biotech Reagent	No	Yes	5668	1 l	200 l
Sodium Hydroxide, 10N	J.T.Baker®	Biotech Reagent	Yes	Yes	5000	1 l	940 l
Sodium Hydroxide, 25%	J.T.Baker®	Biotech Reagent	Yes	Yes	0338	19 l	1,135 l
Sodium Hydroxide, 50%	J.T.Baker®	Biotech Reagent	No	Yes	0339	1 l	1,135 l
<b>Sugars</b>							
Dextrose, Anhydrous	J.T.Baker®	Multi-Compendial	Yes	Yes	1920	2,5 kg	200 lb
Dextrose Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	1913	5 kg	12 kg
Galactose	J.T.Baker®	HPLC, Multi-Compendial	Yes	Yes	6322	1 kg	12 kg
Lactose Monohydrate	J.T.Baker®	Multi-Compendial	Yes	Yes	2250	2,5 kg	12 kg
Mannitol, Powder	J.T.Baker®	Multi-Compendial	Yes	Yes	2553	500 g	50 kg
Sorbitol	J.T.Baker®	Multi-Compendial	Yes	Yes	3449	5 kg	50 kg
Sucrose, Beet Derived	J.T.Baker®	HPLC, Multi-Compendial	Yes	Yes	6321	1 kg	12 kg
Sucrose, Cane Derived	J.T.Baker®	HPLC, Multi-Compendial	Yes	Yes	6320	1 kg	12 kg
Sucrose, Crystal	J.T.Baker®	Multi-Compendial	Yes	Yes	4074	500 g	90 kg
Sucrose, Crystal	J.T.Baker®	BAKER ANALYZED™ ACS Reagent	No	No	4072	500 g	100 lb
Trehalose	J.T.Baker®	HPLC, Multi-Compendial	Yes	Yes	6324	1 kg	12 kg
<b>Surfactants</b>							
Octyl Phenol Ethoxylate	J.T.Baker®	Technical	No	Yes	X199	100 ml	1 l
Polysorbate 20	J.T.Baker®	NF	Yes	Yes	4116	20 ml	19 l
Polysorbate 20, Super Refined	J.T.Baker®	HPLC, Multi-Compendial	Yes	Yes	4600	200 ml	4 l
Polysorbate 80	J.T.Baker®	NF	Yes	Yes	4117	20 ml	19 l
Polysorbate 80, Super Refined	J.T.Baker®	Multi-Compendial	Yes	Yes	4500	200 ml	4 l
Sodium Dodecyl Sulfate	J.T.Baker®	Ultrapure Bioreagent	No	No	4095	100 g	12 kg

\*Note: products shown may not be readily available in all regions without prior arrangement. Contact your Avantor account manager to confirm availability.

\*Additional sizes may be available. For the latest product information or more details, contact your Avantor account manager.

# Excipients





Avantor has a strong history as an excipient supplier for the pharmaceutical and biopharmaceutical industry. Choose from a broad portfolio of high-quality, traditional and novel excipients that support scale-up efficiency—from discovery and development, to full commercial production—for both large and small molecule products.

### Avantor® liquid dosage form excipients for use in suspensions

Product	Brand	Grade	Endotoxin Tested	Avantor MOC Code	Cat. No.	Sizes*
<b>Preservatives</b>						
Butyl Paraben	Macron Fine Chemicals™	NF, BP, EP, JP	No	R	7558	25 kg —
<b>Surfactants</b>						
Polysorbate 20	J.T.Baker®	NF, EP, BP, JP	Yes	R	4116	20 ml 19 l
Polysorbate 20, Super Refined	J.T.Baker®	HPLC, Multi-Compendial	Yes	R	4600	200 ml 4 l
Polysorbate 80	J.T.Baker®	NF, EP, BP, JP	Yes	R	4117	20 ml 19 l
Polysorbate 80, Refined	J.T.Baker®	NF, EP, BP, JP	Yes	R	4500	200 ml 4 l

\*Additional sizes may be available. For the latest product information or more details, contact your Avantor account manager.

### Avantor® liquid dosage form excipients for use in syrups

Product	Brand	Grade	Endotoxin Tested	Avantor MOC Code	Cat. No.	Sizes*
<b>Antioxidants</b>						
Sodium Bisulfite	Macron Fine Chemicals™	FCC	No	NI	7444	500 g 12 kg
Sodium Metabisulfite, Granular	Macron Fine Chemicals™	NF, FCC	No	R	7776	2.5 kg 400 lb
<b>Buffering Agents</b>						
Citric Acid, Anhydrous, Powder	J.T.Baker®	USP	No	R	0122	500 g 200 lb
Citric Acid, Anhydrous, Powder	J.T.Baker®	Multi-compendial	No	R	0127	2.5 kg 12 kg
Citric Acid Monohydrate, Crystalline Powder	J.T.Baker®	USP, FCC	No	R	0120	2.5 kg —
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP	No	R	0616	500 g 12 kg
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP, EP, BP	Yes	R	7788	2.5 kg 12 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, BP, EP, JP	No	R	0115	500 g 50 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, BP, EP, JP	Yes	R	0116	12 kg —
Sodium Citrate Dihydrate, Crystal	Macron Fine Chemicals™	USP, FCC	No	R	0734	500 g 12 kg
Sodium Citrate Dihydrate, Crystalline Powder	Macron Fine Chemicals™	USP-GenAR	No	R	7773	500 g 100 kg
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	3649	500 g 100 kg
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, BP, EP, JP	Yes	R	3647	500 g 100 lb

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Product	Brand	Grade	Endotoxin Tested	Avantor MOC Code	Cat. No.	Sizes*	
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, BP, EP, JP	No	R	3648	12 kg	—
Sodium Citrate Dihydrate, Powder	J.T.Baker®	USP, FCC	No	R	3650	500 g	2,5 kg
Sodium Hydroxide, Pellets	Macron Fine Chemicals™	USP, FCC	Yes	R	7680	500 g	110 lb
Sodium Hydroxide, Pellets	Macron Fine Chemicals™	NF, FCC, EP, BP, JP	No	R	7772	2,5 kg	220 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF, FCC	No	R	3728	12 kg	220 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF, EP, BP, JP	Yes	R	3718	12 kg	220 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, FCC, ACS	Yes	R	3826	12 kg	100 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, FCC	No	R	3827	500 g	12 kg
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, EP, JP	Yes	R	3804	500 g	50 kg
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	USP, EP	Yes	HR	3803	500 g	200 lb
Sodium Phosphate Dibasic Heptahydrate, Crystal	J.T.Baker®	USP	No	HR	3816	2,5 kg	12 kg
Sodium Phosphate Dibasic Heptahydrate, Crystal	J.T.Baker®	USP	Yes	HR	3817	500 g	25 lb
Sodium Phosphate Monobasic Monohydrate	J.T.Baker®	USP, EP, BP	Yes	HR	3802	500 g	50 kg
Sodium Phosphate Monobasic Monohydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	3821	500 g	100 lb
Sodium Phosphate Monobasic Monohydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	3820	500 g	100 lb
<b>Chelating Agents</b>							
Edetate Disodium	Macron Fine Chemicals™	USP	Yes	R	1395	500 g	100 lb
Edetate Disodium	Macron Fine Chemicals™	USP, FCC, BP, EP	No	R	7727	500 g	12 kg
Edetate Disodium	J.T.Baker®	USP	No	R	8994	500 g	100 lb
Edetate Disodium	J.T.Baker®	USP, BP, EP, JP	Yes	R	8995	12 kg	100 lb
<b>Preservatives</b>							
Benzyl Alcohol	Macron Fine Chemicals™	USP	No	R	1403	1 l	463 lb
Methyl Paraben	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	6215	5 kg	25 kg
Propyl Paraben	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	7624	5 kg	25 kg
Sodium Benzoate	Macron Fine Chemicals™	NF, FCC	No	R	0168	2,5 kg	—
Sodium Benzoate	J.T.Baker®	NF, FCC	No	R	3500	500 g	2,5 kg
Sodium Benzoate	J.T.Baker®	NF, BP, EP	No	R	3501	2,5 kg	55 lb
Sodium Benzoate, Dense	Macron Fine Chemicals™	NF, FCC	No	R	1331	45 kg	—
Sodium Benzoate, Dust Free	Macron Fine Chemicals™	NF, FCC	Yes	R	1454	45 kg	—
<b>Preservatives &amp; Buffering Agents</b>							
Sodium Acetate, Anhydrous	J.T.Baker®	USP, FCC	No	R	3473	2,5 kg	200 lb
Sodium Acetate, Anhydrous	J.T.Baker®	USP, FCC	No	R	3474	12 kg	—
Sodium Acetate Trihydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	3462	500 g	275 lb
Sodium Acetate Trihydrate, Crystal	J.T.Baker®	USP, BP, EP, JP	Yes	HR	3461	500 g	275 lb

# Avantor® parenteral dosage form excipients

Product	Brand	Grade	Endotoxin Tested	Avantor MOC Code	Cat. No.	Sizes*	
<b>Antioxidants</b>							
Ascorbic Acid, Fine Granular	J.T.Baker®	USP, FCC	No	R	0938	125 g	1 kg
Ascorbic Acid, Crystalline Powder	J.T.Baker®	USP, FCC	No	R	0936	500 g	1 kg
Ascorbic Acid, Fine Powder	J.T.Baker®	USP, FCC	No	R	0937	500 g	1 kg
Ascorbic Acid, Fine Powder	J.T.Baker®	USP, EP, BP, JP	No	R	0939	500 g	1 kg
Ascorbic Acid, Very Fine Powder	Macron Fine Chemicals™	USP	No	R	8829	500 g	—
L-Cysteine Hydrochloride Monohydrate	J.T.Baker®	USP, FCC, EP, BP	Yes	R	2071	100 g	1 kg
L-Methionine	J.T.Baker®	USP, FCC, EP, BP, JP	Yes	R	2085	100 g	12 kg
Sodium Metabisulfite	J.T.Baker®	NF, EP, BP, JP	No	R	3551	2.5 kg	—
<b>Buffering Agents</b>							
Acetic Acid, 36%	Macron Fine Chemicals™	NF	No	R	2488	2.5 l	—
Acetic Acid, Glacial	Macron Fine Chemicals™	USP, FCC, ACS	No	R	3121	500 ml	2.5 l
Acetic Acid, Glacial	J.T.Baker®	USP, FCC	No	R	9522	500 ml	450 lb
Acetic Acid, Glacial	J.T.Baker®	USP, EP, BP, JP	No	R	9526	500 ml	450 lb
Ammonium Sulfate	J.T.Baker®	NF	Yes	R	0798	500 g	100 kg
Boric Acid, Granular	Macron Fine Chemicals™	NF	No	R	1394	12 kg	330 lb
Citric Acid, Anhydrous, Powder	J.T.Baker®	USP	No	R	0122	500 g	200 lb
Citric Acid, Anhydrous, Powder	J.T.Baker®	USP, EP, BP, JP	No	R	0127	2.5 kg	12 kg
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP	No	R	0616	500 g	12 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	0119	500 g	110 lb
Citric Acid, Monohydrate, Granular	J.T.Baker®	USP, EP, BP, JP	No	R	0115	500 g	50 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	0116	12 kg	—
Citric Acid Monohydrate, Crystalline Powder	J.T.Baker®	USP, FCC	No	R	0120	2.5 kg	—
Glycine	J.T.Baker®	USP, FCC	No	R	0581	500 g	12 kg
Glycine	J.T.Baker®	USP, EP, BP, JP	No	R	0582	500 g	50 kg
L-Histidine Monohydrochloride	J.T.Baker®	FCC, BP, EP	Yes	R	2081	1 kg	50 kg
Hydrochloric Acid, 36.5–38%	Macron Fine Chemicals™	NF, FCC, ACS	No	R	2612	500 ml	500 lb
Hydrochloric Acid, 36.5–38%	J.T.Baker®	NF, EP, BP, JP	No	R	9544	500 ml	475 lb
Hydrochloric Acid, 36.5–38%	Macron Fine Chemicals™	NF, EP, BP, JP	No	R	2515	2.5 l	—
Hydrochloric Acid, Diluted	Macron Fine Chemicals™	NF	No	R	2608	500 ml	50 l
L-Lysine Hydrochloride	J.T.Baker®	USP, FCC, EP, BP, JP	Yes	R	2084	1 kg	50 kg
Phosphoric Acid	J.T.Baker®	NF, EP, BP	No	R	0268	500 ml	700 lb
Phosphoric Acid	J.T.Baker®	NF, FCC	No	R	0262	4 l	200 lb
Phosphoric Acid, Diluted	J.T.Baker®	NF, EP, BP	No	R	5683	19 l	425 lb
Potassium Phosphate Dibasic	J.T.Baker®	USP	No	R	3251	12 kg	100 kg
Potassium Phosphate Dibasic	J.T.Baker®	USP, EP, BP	Yes	R	3250	500 g	100 kg
<b>Chelating Agents</b>							
Edetate Disodium	J.T.Baker®	USP	No	R	8994	500 g	100 lb
Edetate Disodium	Macron Fine Chemicals™	USP	Yes	R	1395	500 g	100 lb
Edetate Disodium	J.T.Baker®	USP, BP, EP, JP	Yes	R	8995	12 kg	100 lb
Edetate Disodium	Macron Fine Chemicals™	USP, FCC, BP, EP	No	R	7727	500 g	12 kg
<b>Preservatives</b>							
Benzyl Alcohol	Macron Fine Chemicals™	USP	No	R	1403	1 l	463 lb
Butylparaben	Macron Fine Chemicals™	NF, BP, EP, JP	No	R	7558	25 kg	—
Methyl Paraben	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	6215	5 kg	25 kg
Phenol, Crystal	Macron Fine Chemicals™	USP	No	R	0605	500 g	2.5 kg
Phenol, Liquefied	J.T.Baker®	USP	No	R	2864	500 ml	4 l
Propyl Paraben	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	7624	5 kg	25 kg
Sodium Benzoate	Macron Fine Chemicals™	NF, FCC	No	R	0168	2.5 kg	—
Sodium Benzoate	J.T.Baker®	NF, FCC	No	R	3500	500 g	2.5 kg
Sodium Benzoate	J.T.Baker®	NF, BP, EP	No	R	3501	2.5 kg	55 lb
Sodium Benzoate, Dense	Macron Fine Chemicals™	NF, FCC	No	R	1331	45 kg	—
Sodium Benzoate, Dust Free	Macron Fine Chemicals™	NF, FCC	Yes	R	1454	45 kg	—
<b>Preservatives &amp; Solvents</b>							
Propylene Glycol	Macron Fine Chemicals™	USP, FCC	No	R	6263	20 l	—
Propylene Glycol	J.T.Baker®	USP, FCC	Yes	R	9402	500 ml	480 lb
Propylene Glycol	J.T.Baker®	USP, BP, EP, JP	Yes	R	9403	500 ml	480 lb
<b>Preservatives, Solvents &amp; Sweeteners</b>							
Glycerin	J.T.Baker®	USP	Yes	R	2142	500 ml	550 lb
Glycerin	J.T.Baker®	USP, FCC	No	R	2140	500 ml	550 lb
Glycerin	J.T.Baker®	USP, BP, EP, JP	No	R	2143	500 ml	2200 lb

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Product	Brand	Grade	Endotoxin Tested	Avantor MOC Code	Cat. No.	Sizes*	
<b>Preservatives, Therapeutic Agents &amp; Electrolyte Balancers</b>							
Calcium Acetate	Macron Fine Chemicals™	USP	No	R	2003	50 kg	—
<b>Solvents</b>							
Glycerin	J.T.Baker®	USP, FCC	No	R	2140	500 ml	550 lb
Glycerin	J.T.Baker®	USP	Yes	R	2142	500 ml	550 lb
Glycerin	J.T.Baker®	USP, BP, EP, JP	No	R	2143	500 ml	2200 lb
Propylene Glycol	Macron Fine Chemicals™	USP, FCC	No	R	6263	20 l	—
Propylene Glycol	J.T.Baker®	USP, FCC	Yes	R	9402	500 ml	480 lb
Propylene Glycol	J.T.Baker®	USP, BP, EP, JP	Yes	R	9403	500 ml	480 lb
<b>Sweeteners</b>							
Dextrose, Anhydrous	J.T.Baker®	USP	Yes	R	1919	500 g	200 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP	Yes	R	4908	2,5 kg	100 lb
Dextrose, Anhydrous	J.T.Baker®	USP, BP, EP, JP	Yes	R	1920	2,5 kg	200 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP, BP, EP, JP	Yes	R	7730	2,5 kg	100 lb
Dextrose Monohydrate, Powder	J.T.Baker®	USP, Multi-Compendial	Yes	R	1913	5 kg	12 kg
Sucrose	Macron Fine Chemicals™	NF	Yes	R	7724	12 kg	—
Sucrose	Macron Fine Chemicals™	NF, EP, BP	Yes	R	7723	1 kg	100 lb
Sucrose, Crystal	J.T.Baker®	NF, Multi-Compendial	Yes	R	4074	500 g	90 kg
Potassium Phosphate Monobasic, Crystal	Macron Fine Chemicals™	NF	No	R	7746	500 g	12 kg
Potassium Phosphate Monobasic, Crystal	J.T.Baker®	NF, FCC	Yes	R	3247	2,5 kg	100 kg
Potassium Phosphate Monobasic, Crystal	J.T.Baker®	NF, BP, EP	Yes	R	3248	500 g	12 kg
Sodium Acetate, Anhydrous	J.T.Baker®	USP, FCC	No	R	3473	2,5 kg	200 lb
Sodium Acetate, Anhydrous	J.T.Baker®	USP, FCC	No	R	3474	12 kg	—
Sodium Acetate Trihydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	3462	500 g	275 lb
Sodium Acetate Trihydrate, Crystal	J.T.Baker®	USP, BP, EP, JP	Yes	HR	3461	500 g	275 lb
Sodium Bicarbonate, Powder	Macron Fine Chemicals™	USP, FCC	No	R	7396	2,5 kg	25 kg
Sodium Bicarbonate, Powder	J.T.Baker®	USP, FCC	No	R	3509	500 g	100 lb
Sodium Bicarbonate, Powder	J.T.Baker®	USP, EP, BP, JP	Yes	R	3510	2,5 kg	100 lb
Sodium Borate Decahydrate	Macron Fine Chemicals™	NF	No	R	7418	300 lb	—
Sodium Borate Decahydrate	J.T.Baker®	NF	No	R	3574	500 g	12 kg
Sodium Borate Decahydrate	J.T.Baker®	NF, EP, BP, JP	Yes	R	3575	12 kg	—
Sodium Citrate Dihydrate, Powder	J.T.Baker®	USP, FCC	No	R	3650	500 g	2,5 kg
Sodium Citrate Dihydrate, Crystal	Macron Fine Chemicals™	USP, FCC	No	R	0734	500 g	12 kg
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	3649	500 g	100 kg
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	3647	500 g	100 lb
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, EP, BP, JP	No	R	3648	12 kg	—
Sodium Hydroxide, Pellets	Macron Fine Chemicals™	USP, FCC	Yes	R	7680	500 g	110 lb
Sodium Hydroxide, Pellets	Macron Fine Chemicals™	NF, FCC, EP, BP, JP	No	R	7772	2,5 kg	220 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF, FCC	No	R	3728	12 kg	220 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF, EP, BP, JP	Yes	R	3718	12 kg	220 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, FCC, ACS	Yes	R	3826	12 kg	100 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, FCC	No	R	3827	500 g	12 kg
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, EP, JP	Yes	R	3804	500 g	50 kg
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	USP, EP	Yes	HR	3803	500 g	200 lb
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	USP	No	HR	3816	2,5 kg	12 kg
Sodium Phosphate Dibasic Heptahydrate	J.T.Baker®	USP	Yes	HR	3817	500 g	25 lb
Sodium Phosphate Monobasic Monohydrate	J.T.Baker®	NF, FCC	Yes	HR	3802	500 g	50 kg
Sodium Phosphate Monobasic Monohydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	3821	500 g	100 lb
Sodium Phosphate Monobasic Monohydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	3820	500 g	100 lb
Sulfuric Acid, 95–98%	J.T.Baker®	NF, EP, BP	No	R	9671	500 ml	4050 lb
Sulfuric Acid, 95–98%	J.T.Baker®	NF, FCC	No	R	9675	500 ml	700 lb
<b>Tonicity Adjusters</b>							
L-Arginine	J.T.Baker®	USP, FCC, BP, EP	Yes	R	2066	1 kg	50 kg
L-Arginine Hydrochloride	J.T.Baker®	USP, FCC, BP, EP, JP	Yes	R	2067	1 kg	50 kg
Calcium Chloride Dihydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	1336	500 g	300 lb
Calcium Chloride Dihydrate, Granular	J.T.Baker®	USP, BP, EP, JP	Yes	R	1335	12 kg	—
Dextrose, Anhydrous	J.T.Baker®	USP	Yes	R	1919	500 g	200 lb
Dextrose, Anhydrous	J.T.Baker®	USP, EP, BP, JP	Yes	R	1920	2,5 kg	200 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP	Yes	R	4908	2,5 kg	100 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP, EP, BP, JP	Yes	R	7730	2,5 kg	12 kg

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# BIOPHARMACEUTICAL PRODUCTS

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Product	Brand	Grade	Endotoxin Tested	Avantor MOC Code	Cat. No.	Sizes*
Dextrose Monohydrate, Powder	J.T.Baker®	USP, Multi-Compendial	Yes	R	1913	5 kg 12 kg
Glycerin	J.T.Baker®	USP	Yes	R	2142	500 ml 550 lb
Glycerin	J.T.Baker®	USP, FCC	No	R	2140	500 ml 550 lb
Glycerin	J.T.Baker®	USP, BP, EP, JP	No	R	2143	500 ml 2200 lb
Glycine	J.T.Baker®	USP, FCC	No	R	0581	500 g 12 kg
Glycine	J.T.Baker®	USP, EP, BP, JP	No	R	0582	500 g 50 kg
L-Histidine	J.T.Baker®	USP, FCC, BP, EP, JP	Yes	R	2080	100g 12 kg
L-Histidine Monohydrochloride	J.T.Baker®	FCC, BP, EP	Yes	R	2081	1 kg 50 kg
Lactose Monohydrate, Powder	J.T.Baker®	NF	No	R	2249	500 g 12 kg
Lactose Monohydrate, Powder	J.T.Baker®	NF, Multi-Compendial	Yes	R	2250	2.5 kg 12 kg
Magnesium Chloride, Hexahydrate	Macron Fine Chemicals™	USP	No	HR	5956	2.5 kg 100 lb
Magnesium Chloride, Hexahydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	2448	500 g 250 lb
Magnesium Chloride, Hexahydrate, Crystal	J.T.Baker®	USP, BP, EP	Yes	HR	2449	500 g 90 lb
Magnesium Sulfate, Anhydrous	Macron Fine Chemicals™	USP	No	R	5053	10 kg 200 lb
Magnesium Sulfate, Dried Powder	Macron Fine Chemicals™	USP, FCC	No	R	6050	100 lb —
Magnesium Sulfate, Heptahydrate	Macron Fine Chemicals™	USP, FCC	No	R	4200	2.5 kg 12 kg
Magnesium Sulfate, Heptahydrate, Crystal	J.T.Baker®	USP	Yes	R	2505	12 kg —
Magnesium Sulfate, Heptahydrate, Crystal	J.T.Baker®	USP, BP, EP	Yes	R	2504	500 g 175 lb
Mannitol	Macron Fine Chemicals™	USP, EP, BP	Yes	R	7781	12 kg —
Mannitol	J.T.Baker®	USP, EP, BP, JP	Yes	R	2553	500 g 50 kg
Mannitol	J.T.Baker®	USP, BP, EP, JP	Yes	R	3045	500 g 100 lb
Potassium Chloride, Crystal	J.T.Baker®	USP, FCC	No	R	3046	500 g 250 lb
Potassium Chloride, Crystal	Macron Fine Chemicals™	USP, FCC	No	R	6838	500 g 250 lb
Sodium Chloride, Granular	Macron Fine Chemicals™	USP, FCC	No	R	7532	500 g 350 lb
Sodium Chloride, Granular	J.T.Baker®	USP, FCC	No	R	3628	500 g 350 lb
Sodium Chloride, Granular	J.T.Baker®	USP, FCC	Yes	R	3629	12 kg 100 lb
Sodium Chloride, Granular	Macron Fine Chemicals™	USP, FCC, EP, BP, JP	Yes	R	7713	500 g 220 lb
Sodium Chloride, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	3627	500 g 350 lb
Sodium Chloride, Powder	Macron Fine Chemicals™	USP, EP, BP, JP	Yes	R	7540	500 g 100 lb
Sodium Sulfate, Anhydrous	Macron Fine Chemicals™	USP	No	R	8028	500 g 100 kg
Sodium Sulfate, Anhydrous, Powder	Macron Fine Chemicals™	USP, EP, BP	No	R	7803	12 kg 100 kg
Sucrose	Macron Fine Chemicals™	NF	Yes	R	7724	12 kg —
Sucrose	Macron Fine Chemicals™	NF, EP, BP	Yes	R	7723	1 kg 100 lb
Sucrose, Crystal	J.T.Baker®	NF, Multi-Compendial	Yes	R	4074	500 g 90 kg
L-Threonine	J.T.Baker®	USP, FCC, BP, EP, JP	Yes	R	2089	1 kg 12 kg
<b>Tonicity Adjusters</b>						
Polysorbate 20	J.T.Baker®	NF, EP, BP, JP	Yes	R	4116	20 ml 19 l
Polysorbate 20, Super Refined	J.T.Baker®	HPLC, Multi-Compendial	Yes	R	4600	200 ml 4 l
Polysorbate 80	J.T.Baker®	NF, EP, BP, JP	Yes	R	4117	20 ml 19 l
Polysorbate 80, Super Refined	J.T.Baker®	NF, EP, BP, JP	Yes	R	4500	200 ml 4 l

\*Additional sizes may be available. For the latest product information or more details, contact your Avantor account manager.

## Avantor® semi-solid dosage form excipients for use in gels

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Antioxidants</b>						
Sodium Bisulfite	Macron Fine Chemicals™	FCC	No	NI	7444	500 g 12 kg
Sodium Metabisulfite, Granular	Macron Fine Chemicals™	NF, FCC	No	R	7776	2,5 kg 400 lb
<b>Chelating Agents</b>						
Edetate Disodium	J.T.Baker®	USP	No	R	8994	500 g 100 lb
Edetate Disodium	Macron Fine Chemicals™	USP	Yes	R	1395	500 g 100 lb
Edetate Disodium	Macron Fine Chemicals™	USP, FCC, BP, EP	No	R	7727	500 g 12 kg
Edetate Disodium	J.T.Baker®	USP, BP, EP, JP	Yes	R	8995	12 kg 100 lb
<b>Preservatives</b>						
Glycerin	J.T.Baker®	USP	Yes	R	2142	500 ml 550 lb
Glycerin	J.T.Baker®	USP, FCC	No	R	2140	500 ml 550 lb
Glycerin	J.T.Baker®	USP, BP, EP, JP	No	R	2143	500 ml 2200 lb
Methyl Paraben (Nipagin)	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	6215	5 kg 25 kg
Propyl Paraben (Nipasol)	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	7624	5 kg 25 kg
<b>Solvents &amp; Preservatives</b>						
Isopropyl Alcohol	Macron Fine Chemicals™	USP	No	R	3031	4 l 345 lb
Isopropyl Alcohol	J.T.Baker®	USP, BP, EP, JP	No	R	9037	500 ml 20 l
Propylene Glycol	Macron Fine Chemicals™	USP, FCC	No	R	6263	20 l —
Propylene Glycol	J.T.Baker®	USP, FCC	Yes	R	9402	500 ml 480 lb
Propylene Glycol	J.T.Baker®	USP, BP, EP, JP	Yes	R	9403	500 ml 480 lb

\*Additional sizes may be available. For the latest product information or more details, contact your Avantor account manager.

## Avantor® semi-solid dosage form excipients for use in creams

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Acidifying Agents</b>						
Phosphoric Acid	J.T.Baker®	USP, EP, BP, JP	No	R	0268	500 ml 700 lb
Phosphoric Acid	J.T.Baker®	NF, FCC	No	R	0262	4 l 200 lb
Phosphoric Acid	Macron Fine Chemicals™	NF, FCC	No	R	2788	500 ml 700 lb
<b>Antimicrobial Preservatives</b>						
Boric Acid	J.T.Baker®	NF	No	R	0091	500 g 2.5 kg
Boric Acid	Macron Fine Chemicals™	NF	No	R	1394	12 kg 330lb
Boric Acid	J.T.Baker®	NF, EP, BP, JP	Yes	R	0092	2,5 kg 50 kg
<b>Antioxidants</b>						
Sodium Bisulfite	Macron Fine Chemicals™	FCC	No	NI	7444	500 g 12 kg
Sodium Metabisulfite, Granular	Macron Fine Chemicals™	NF, FCC	No	R	7776	2,5 kg 400 lb
<b>Buffering Agents</b>						
Potassium Hydroxide, Pellets	Macron Fine Chemicals™	NF, FCC	No	R	6976	500 g 110 lb
Potassium Hydroxide, Pellets	J.T.Baker®	NF, EP, BP, JP	No	R	3152	500 g 2.5 kg
Sodium Citrate Dihydrate, Crystal	Macron Fine Chemicals™	USP-GenAR	No	R	7773	500 g 100 kg
Sodium Citrate Dihydrate, Crystal	Macron Fine Chemicals™	USP, FCC	No	R	0734	500 g 12 kg
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	3649	500 g 100 kg
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	3647	500 g 100 lb
Sodium Citrate Dihydrate, Granular	J.T.Baker®	USP, EP, BP, JP	No	R	3648	12 kg —
Sodium Citrate, Dihydrate, Powder	J.T.Baker®	USP, FCC	No	R	3650	500 g 2.5 kg
Sodium Hydroxide, Pellets	Macron Fine Chemicals™	USP, FCC	Yes	R	7680	500 g 110 lb
Sodium Hydroxide, Pellets	Macron Fine Chemicals™	NF, FCC, EP, BP, JP	No	R	7772	2,5 kg 220 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF, FCC	No	R	3728	12 kg 220 lb
Sodium Hydroxide, Pellets	J.T.Baker®	NF, EP, BP, JP	Yes	R	3718	12 kg 220 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, FCC, ACS	Yes	R	3826	12 kg 100 lb
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, FCC	No	R	3827	500 g 12 kg
Sodium Phosphate Dibasic, Anhydrous	J.T.Baker®	USP, EP, JP	Yes	R	3804	500 g 50 kg
Sodium Phosphate, Dibasic, Heptahydrate, Crystal	J.T.Baker®	USP	No	HR	3816	2,5 kg 12 kg
Sodium Phosphate, Dibasic, Heptahydrate, Crystal	J.T.Baker®	USP	Yes	HR	3817	500 g 25 lb
Sodium Phosphate, Dibasic, Heptahydrate	J.T.Baker®	USP, EP	Yes	HR	3803	500 g 200 lb

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# BIOPHARMACEUTICAL PRODUCTS

Continued from previous page

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*	
Sodium Phosphate Monobasic Monohydrate	J.T.Baker®	USP, EP, BP	Yes	HR	<b>3802</b>	500 g	50 kg
Sodium Phosphate Monobasic Monohydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	<b>3821</b>	500 g	100 lb
Sodium Phosphate Monobasic Monohydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	<b>3820</b>	500 g	100 lb
<b>Chelating Agents</b>							
Citric Acid, Anhydrous, Powder	J.T.Baker®	USP	No	R	<b>0122</b>	500 g	200 lb
Citric Acid Monohydrate, Crystalline Powder	J.T.Baker®	USP, FCC	No	R	<b>0120</b>	2,5 kg	—
Citric Acid Monohydrate, Crystalline Powder	J.T.Baker®	USP, EP, BP, JP	No	R	<b>0127</b>	2,5 kg	12 kg
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP	No	R	<b>0616</b>	500 g	12 kg
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP, EP, BP	Yes	R	<b>7788</b>	2,5 kg	12 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	<b>0119</b>	500 g	110 lb
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, EP, BP, JP	No	R	<b>0115</b>	500 g	50 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	<b>0116</b>	12 kg	—
Edetate Disodium	Macron Fine Chemicals™	USP	Yes	R	<b>1395</b>	500 g	100 lb
Edetate Disodium	Macron Fine Chemicals™	USP, FCC, BP, EP	No	R	<b>7727</b>	500 g	12 kg
Edetate Disodium	J.T.Baker®	USP	No	R	<b>8994</b>	500 g	100 lb
Edetate Disodium	J.T.Baker®	USP, BP, EP, JP	Yes	R	<b>8995</b>	12 kg	100 lb
<b>Emollients</b>							
Mineral Oil White	J.T.Baker®	USP	No	R	<b>2705</b>	500 ml	—
<b>Oleaginous Vehicles, Solvents</b>							
Mineral Oil White Light (Paraffin Oil, Liquid Petrolatum)	Macron Fine Chemicals™	NF	No	R	<b>6358</b>	500 ml	20 l
<b>Penetration Enhancers, Solvents</b>							
Dimethyl Sulfoxide	J.T.Baker®	USP	No	R	<b>9033</b>	100 ml	4 l
<b>Preservatives</b>							
Methyl Paraben (Nipagin)	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	<b>6215</b>	5 kg	25 kg
Propyl Paraben (Nipasol)	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	<b>7624</b>	5 kg	25 kg
Sodium Acetate, Anhydrous	J.T.Baker®	USP, FCC	No	R	<b>3473</b>	2,5 kg	200 lb
Sodium Acetate Trihydrate, Crystal	J.T.Baker®	USP, FCC	No	HR	<b>3462</b>	500 g	275 lb
Sodium Acetate Trihydrate, Crystal	J.T.Baker®	USP, EP, BP, JP	Yes	HR	<b>3461</b>	500 g	275 lb
<b>Preservatives, Emollients, Humectants &amp; Solvents</b>							
Glycerin	J.T.Baker®	USP	Yes	R	<b>2142</b>	500 ml	550 lb
Glycerin	J.T.Baker®	USP, FCC	No	R	<b>2140</b>	500 ml	550 lb
Glycerin	J.T.Baker®	USP, BP, EP, JP	No	R	<b>2143</b>	500 ml	2200 lb
<b>Solvents</b>							
Mineral Oil, White, Heavy (Paraffin Oil, Liquid Petrolatum)	Macron Fine Chemicals™	USP	No	R	<b>6357</b>	500 ml	20 l
<b>Solvents &amp; Preservatives</b>							
Benzyl Alcohol	J.T.Baker®	USP	No	R	<b>9040</b>	4 l	—
Benzyl Alcohol	Macron Fine Chemicals™	USP	No	R	<b>1403</b>	1 l	463 lb
Benzyl Alcohol	J.T.Baker®	USP, EP, BP, JP	No	R	<b>9421</b>	500 ml	4 l
Benzyl Alcohol	J.T.Baker®	USP, EP, BP, JP	No	R	<b>9039</b>	100 ml	4 l
Propylene Glycol	Macron Fine Chemicals™	USP, FCC	No	R	<b>6263</b>	20 l	—
Propylene Glycol	J.T.Baker®	USP, FCC	Yes	R	<b>9402</b>	500 ml	480 lb
Propylene Glycol	J.T.Baker®	USP, BP, EP, JP	Yes	R	<b>9403</b>	500 ml	480 lb
<b>Surfactants</b>							
Polysorbate 20	J.T.Baker®	NF, EP, BP, JP	Yes	R	<b>4116</b>	20 ml	19 l
Polysorbate 80	J.T.Baker®	NF, EP, BP, JP	Yes	R	<b>4500</b>	200 ml	4 l
Polysorbate 80, Super Refined	J.T.Baker®	NF, EP, BP, JP	Yes	R	<b>4117</b>	20 ml	19 l





## Avantor® semi-solid dosage form excipients for use in ointments

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Emollients, Oleaginous Vehicles &amp; Solvents</b>						
Mineral Oil, White	J.T.Baker®	USP	No	R	2705	500 ml —
Mineral Oil, White, Heavy (Paraffin Oil, Liquid Petrolatum)	Macron Fine Chemicals™	USP	No	R	6357	500 ml 20 l
Mineral Oil, White, Light (Paraffin Oil, Liquid Petrolatum)	Macron Fine Chemicals™	NF	No	R	6358	500 ml 20 l
<b>Solvents &amp; Preservatives</b>						
Propylene Glycol	Macron Fine Chemicals™	USP, FCC	No	R	6263	20 l
Propylene Glycol	J.T.Baker®	USP, FCC	Yes	R	9402	500 ml 480 lb
Propylene Glycol	J.T.Baker®	USP, BP, EP, JP	Yes	R	9403	500 ml 480 lb
<b>Therapeutic Agents &amp; Alkalinizing Agents</b>						
Sodium Bicarbonate, Powder	Macron Fine Chemicals™	USP, FCC	No	R	7396	500 g 300 lb
Sodium Bicarbonate, Powder	J.T.Baker®	USP, FCC	No	R	3509	500 g 100 lb
Sodium Bicarbonate, Powder	Macron Fine Chemicals™	USP, FCC, EP, BP, JP	Yes	R	7749	2.5 kg 100 lb
Sodium Bicarbonate, Powder	J.T.Baker®	USP, EP, BP, JP	Yes	R	3510	2.5 kg 100 lb

## Avantor® solid dosage form excipients for use in granulation

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Diluents</b>						
Dextrose, Anhydrous	J.T.Baker®	USP	Yes	R	1919	500 g 200 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP	Yes	R	4908	2,5 kg 100 lb
Dextrose, Anhydrous	J.T.Baker®	USP, EP, BP, JP	Yes	R	1920	2,5 kg 200 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP, EP, BP, JP	Yes	R	7730	2,5 kg 100 lb
Dextrose Monohydrate, Powder	J.T.Baker®	USP, Multi-Compendial	Yes	R	1913	5 kg 12 kg
Dicalcium Phosphate, Anhydrous, Powder	Macron Fine Chemicals™	USP, FCC	No	R	4264	12 kg 100 lb
Isopropyl Alcohol	Macron Fine Chemicals™	USP	No	R	3031	4 l 350 lb
Lactose Monohydrate, Powder	J.T.Baker®	NF	No	R	2249	500 g 12 kg
Lactose Monohydrate, Powder	J.T.Baker®	NF, Multi-Compendial	Yes	R	2250	2,5 kg 12 kg
Magnesium Oxide	Macron Fine Chemicals™	USP	No	R	6018	55 lb —
Magnesium Oxide	J.T.Baker®	USP, FCC	No	R	2480	500 g 2 kg
Mannitol	Macron Fine Chemicals™	USP, EP, BP	Yes	R	7781	12 kg —
Mannitol	J.T.Baker®	USP, EP, BP, JP	Yes	R	2553	500 g 50 kg
Sodium Chloride, Granular	Macron Fine Chemicals™	USP, FCC	No	R	7532	500 g 350 lb
Sodium Chloride, Granular	J.T.Baker®	USP, FCC	No	R	3628	500 g 350 lb
Sodium Chloride, Granular	J.T.Baker®	USP, FCC	Yes	R	3629	12 kg 100 lb
Sodium Chloride, Granular	Macron Fine Chemicals™	USP, FCC, EP, BP, JP	Yes	R	7713	500 g 220 lb
Sodium Chloride, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	3627	500 g 350 lb
Sodium Chloride, Powder	Macron Fine Chemicals™	USP, EP, BP, JP	Yes	R	7540	500 g 100 lb
Sucrose	Macron Fine Chemicals™	NF	Yes	R	7724	12 kg —
Sucrose	Macron Fine Chemicals™	NF, EP, BP	Yes	R	7723	1 kg 100 lb
Sucrose, Crystal	J.T.Baker®	NF, Multi-Compendial	Yes	R	4074	500 g 90 kg
<b>Solvents</b>						
Acetone	J.T.Baker®	NF, FCC	No	R	9008	500 ml 350 lb
Acetone	Macron Fine Chemicals™	NF	No	R	2432	500 ml 20 l
<b>Therapeutic Agents</b>						
Calcium Acetate	Macron Fine Chemicals™	USP, EP, BP	No	R	2003	50 kg —
Potassium Iodide, Powder	Macron Fine Chemicals™	USP, EP, BP	No	R	1115	500 g 50 kg
<b>Therapeutic Agents &amp; Antioxidants</b>						
Ascorbic Acid	Macron Fine Chemicals™	USP	No	R	1852	100 g 500 g
Ascorbic Acid, Very Fine Powder	Macron Fine Chemicals™	USP	No	R	8829	500 g —
Ascorbic Acid, Crystalline Powder	J.T.Baker®	USP, FCC	No	R	0936	500 g 1 kg
Ascorbic Acid, Fine Granular	J.T.Baker®	USP, FCC	No	R	0938	125 g 1 kg
Ascorbic Acid, Fine Powder	J.T.Baker®	USP, FCC	No	R	0937	500 g 1 kg
Ascorbic Acid, Fine Powder	J.T.Baker®	USP, EP, BP, JP	No	R	0939	500 g 1 kg
<b>Therapeutic Agents &amp; Diluents</b>						
Magnesium Carbonate	Macron Fine Chemicals™	USP, FCC	No	R	5942	50 lb —
Magnesium Carbonate, Heavy	Macron Fine Chemicals™	USP, FCC	No	R	5946	50 lb —
<b>Therapeutic Agents &amp; Alkalinizing Agents</b>						
Sodium Bicarbonate, Powder	Macron Fine Chemicals™	USP, FCC	No	R	7396	500 g 300 lb
Sodium Bicarbonate, Powder	J.T.Baker®	USP, FCC	No	R	3509	500 g 100 lb
Sodium Bicarbonate, Powder	Macron Fine Chemicals™	USP, FCC, EP, BP, JP	Yes	R	7749	2,5 kg 100 lb
Sodium Bicarbonate, Powder	J.T.Baker®	USP, EP, BP, JP	Yes	R	3510	2,5 kg 100 lb

## Avantor® solid dosage form excipients for use in shells & coatings

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Anti-Tacking Agents</b>						
Talc	J.T.Baker®	USP, Multi-Compendial	No	R	4100	500 g 100 lb
<b>Plasticizers</b>						
Stearic Acid	Macron Fine Chemicals™	NF, EP, BP, JP	No	R	2236	500 g 100 lb

# Avantor® solid dosage form excipients for use in compression

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Acidifying Agents, Antioxidants, Chelating Agents &amp; Flavor Enhancers</b>						
Citric Acid, Anhydrous, Powder	J.T.Baker®	USP	No	R	0122	500 g 200 lb
Citric Acid, Anhydrous, Powder	J.T.Baker®	USP, EP, BP, JP	No	R	0127	2,5 kg 12 kg
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP	No	R	0616	500 g 12 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, FCC	Yes	R	0119	500 g 110 lb
Citric Acid Monohydrate, Crystalline Powder	J.T.Baker®	USP, FCC	No	R	0120	2,5 kg —
Citric Acid Monohydrate, Granular	Macron Fine Chemicals™	USP, EP, BP	Yes	R	7788	2,5 kg 12 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, EP, BP, JP	No	R	0115	500 g 50 kg
Citric Acid Monohydrate, Granular	J.T.Baker®	USP, EP, BP, JP	Yes	R	0116	12 kg —
<b>Acidifying Agents, Sequestering Agents &amp; Flavoring Agents</b>						
Tartaric Acid, Granular	Macron Fine Chemicals™	NF, FCC	No	R	2307	500 g 50 kg
Tartaric Acid, Granular	J.T.Baker®	NF, FCC	No	R	4104	500 g —
Tartaric Acid, Granular	J.T.Baker®	NF, EP, BP, JP	Yes	R	4105	2,5 kg —
<b>Disintegration Accelerators</b>						
Dextrose, Anhydrous	J.T.Baker®	USP	Yes	R	1919	500 g 200 lb
Dextrose, Anhydrous	J.T.Baker®	USP, EP, BP, JP	Yes	R	1920	2,5 kg 200 lb
Glycine	J.T.Baker®	USP, FCC	No	R	0581	500 g 12 kg
Glycine	J.T.Baker®	USP, EP, BP, JP	No	R	0582	500 g 50 kg
<b>Glidants</b>						
Calcium Phosphate Tribasic	Macron Fine Chemicals™	NF, FCC	No	R	4280	500 g 100 lb
Magnesium Oxide	Macron Fine Chemicals™	USP	No	R	6018	55 lb —
Magnesium Oxide	J.T.Baker®	USP, FCC	No	R	2480	500 g 2 kg
Talc	J.T.Baker®	USP, Multi-Compendial	No	R	4100	500 g 100 lb
<b>Lubricants</b>						
Magnesium Stearate	Macron Fine Chemicals™	NF, EP, BP, JP	No	R	5712	2,5 kg 40 kg
Magnesium Stearate	Macron Fine Chemicals™	NF, EP, BP, JP	No	R	2257	2,5 kg 40 kg
Stearic Acid	Macron Fine Chemicals™	NF, EP, BP, JP	No	R	2236	500 g 100 lb
<b>Surfactants</b>						
Dextrose, Anhydrous	J.T.Baker®	USP	Yes	R	1919	500 g 200 lb
Dextrose, Anhydrous	J.T.Baker®	USP, EP, BP, JP	Yes	R	1920	2,5 kg 200 lb
Polysorbate 20	J.T.Baker®	NF, EP, BP, JP	Yes	R	4116	20 ml 19 l
Polysorbate 20, Super Refined	J.T.Baker®	HPLC, Multi-Compendial	Yes	R	4600	200 ml 4 l
Polysorbate 80	J.T.Baker®	NF, EP, BP, JP	Yes	R	4117	20 ml 19 l
Polysorbate 80, Super Refined	J.T.Baker®	NF, EP, BP, JP	Yes	R	4500	200 ml 4 l
<b>Suspending Agents</b>						
Polysorbate 20	J.T.Baker®	NF, EP, BP, JP	Yes	R	4116	20 ml 19 l
Polysorbate 20, Super Refined	J.T.Baker®	HPLC, Multi-Compendial	Yes	R	4600	200 ml 4 l
Polysorbate 80, Super Refined	J.T.Baker®	NF, EP, BP, JP	Yes	R	4500	200 ml 4 l
<b>Sweeteners</b>						
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP	Yes	R	4908	2,5 kg 100 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP, EP, BP, JP	Yes	R	7730	2,5 kg 12 kg
Dextrose, Monohydrate, Powder	J.T.Baker®	USP, Multi-Compendial	Yes	R	1913	5 kg 12 kg
Sucrose	Macron Fine Chemicals™	NF	Yes	R	7724	12 kg —
Sucrose	Macron Fine Chemicals™	NF, EP, BP	Yes	R	7723	1 kg 100 lb
Sucrose, Crystal	J.T.Baker®	NF, Multi-Compendial	Yes	R	4074	500 g 90 kg



## Avantor® soft gelatin capsule dosage form excipients for use in shells & fill

Product	Brand	Grade	Endotoxin Tested	MOC Code	Cat. No.	Sizes*
<b>Antioxidants</b>						
Sodium Metabisulfite, Granular	Macron Fine Chemicals™	NF, FCC	No	R	7776	2,5 kg 400 lb
Sodium Metabisulfite	J.T.Baker®	NF, EP, BP, JP	No	R	3551	2,5 kg —
<b>Chelating Agents</b>						
Edetate Disodium	Macron Fine Chemicals™	USP	Yes	R	1395	500 g 100 lb
Edetate Disodium	J.T.Baker®	USP	No	R	8994	500 g 100 lb
Edetate Disodium	Macron Fine Chemicals™	USP, FCC, BP, EP	No	R	7727	500 g 12 kg
Edetate Disodium	J.T.Baker®	USP, BP, EP, JP	Yes	R	8995	12 kg 100 lb
<b>Plasticizers</b>						
Glycerin	J.T.Baker®	USP	Yes	R	2142	500 ml 550 lb
Glycerin	J.T.Baker®	USP, FCC	No	R	2140	500 ml 550 lb
Glycerin	J.T.Baker®	USP, BP, EP, JP	No	R	2143	500 ml 2200 lb
Propylene Glycol	Macron Fine Chemicals™	USP, FCC	No	R	6263	20 l —
Propylene Glycol	J.T.Baker®	USP, FCC	Yes	R	9402	500 ml 480 lb
Propylene Glycol	J.T.Baker®	USP, BP, EP, JP	Yes	R	9403	500 ml 480 lb
Sorbitol	J.T.Baker®	NF, BP, EP, JP	Yes	R	3449	5 kg 50 kg
<b>Preservatives</b>						
Methyl Paraben	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	6215	5 kg 25 kg
Propyl Paraben	Macron Fine Chemicals™	NF, FCC, BP, EP, JP	No	R	7624	5 kg 25 kg
Sodium Benzoate	Macron Fine Chemicals™	NF, FCC	No	R	0168	2,5 kg —
Sodium Benzoate	J.T.Baker®	NF, FCC	No	R	3500	500 g 2,5 kg
Sodium Benzoate	J.T.Baker®	NF, BP, EP	No	R	3501	2,5 kg 55 lb
<b>Sweeteners</b>						
Dextrose, Anhydrous	J.T.Baker®	USP	Yes	R	1919	500 g 200 lb
Dextrose, Anhydrous, Granular	Macron Fine Chemicals™	USP	Yes	R	4908	2,5 kg 100 lb
Dextrose, Anhydrous	Macron Fine Chemicals™	USP, EP, BP, JP	Yes	R	7730	2,5 kg 12 kg
Dextrose, Anhydrous	J.T.Baker®	USP, EP, BP, JP	Yes	R	1920	2,5 kg 200 lb
Dextrose Monohydrate, Powder	J.T.Baker®	USP, Multi-Compendial	Yes	R	1913	5 kg 12 kg
Sucrose	Macron Fine Chemicals™	NF	Yes	R	7724	12 kg —
Sucrose	Macron Fine Chemicals™	NF, EP, BP	Yes	R	7723	1 kg 100 lb
Sucrose, Crystal	J.T.Baker®	NF, Multi-Compendial	Yes	R	4074	500 g 90 kg



# Setting science in motion to create a better world

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