

VWR Chemicals for biopharma & pharma production



Products and services supporting your entire drug development process chain

- Suitable for production and bioprocessing use
- BSE-/TSE-free
- Custom packaging and testing
- Three-lot sampling
- Convenient standard pack sizes
- Analytical laboratory support
- Regulatory support including change management
- Supply chain transparency and auditing of raw material manufacturers
- Dedicated web portal vwr.com/production

New bioprocessing chemicals
- more products, more
options, more solutions

VWR Chemicals can help you...

The requirements and regulations faced by pharmaceutical manufacturers when purchasing chemicals, biological buffers, or biochemicals for bioprocessing production, increase in stringency and complexity on an almost daily basis.

For over 100 years Avantor have been helping our customers manage their scientific challenges and grow their business. Our product quality, supporting documentation and production expertise has evolved to anticipate market requirements. This means that we can supply you with products and support to enable you to streamline your production processes.



Wherever you are...

Built on a foundation of supply chain innovation, our goal is for our customers to have a consistent and reliable experience wherever they are in the world.

VWR has an extensive global network in 34 countries including 14 distribution facilities across 3 continents for Good Distribution Practices (cGDP). These facilities are certified by a qualified outside auditor under International Pharmaceutical Excipient Council's (IPEC) guidelines:

In Europe, we have 4 important warehouses based in :

- Briare, France
- Leuven, Belgium
- Dublin, Ireland
- Gliwice, Poland



Expertise

We have designed our customer-centric quality and security programmes to offer flexibility, reduce the complexity around meeting regulatory requirements, and manage risk.

- Quality and Change Notice Verification (CNV) processes
- Proactive risk-based audit programme of new and existing suppliers for corrective and preventive actions (CAPA)
- Regulatory compliance with necessary certification (quality, conformance and analysis), and safety data sheets readily available on [vwr.com](https://www.vwr.com)
- Collaborative planning, forecasting and replenishment (CPFR) process with dedicated critical material care experts proactively managing all aspects of fulfillment
- Processes underpinned by innovative technology solutions
- VWR's local field-based technical experts across five continents to help you match your requirements to high quality suppliers of bioprocessing materials



Custom manufacturing

Working with Avantor Custom Manufacturing Services is like having an advisory panel and project team just beyond the door of your own production facilities.

Our scientists and process engineers will ensure the right processes and systems are used to meet your needs. Whether your product is in development or already commercialised, we can scale our systems appropriately. We provide an entire team of skilled professionals dedicated to offering you excellence in science and engineering, as well as quality assurance, operations and supply chain disciplines.



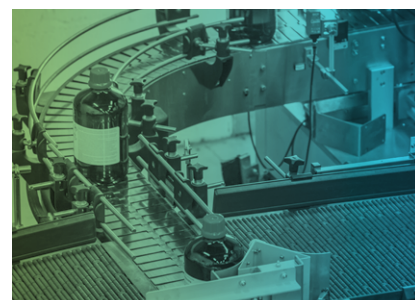
Liquid and powder manufacturing

- Custom formulations
- Synthesis of buffer compounds and derivatives
- Lab to production scale
- Dedicated facilities for biologicals



Dosing and packaging

- ISO class environments
- Aseptic processing
- Flexible packaging and fill/finish options
- Hazardous and sensitive material handling
- Automated production lines



Assembly and finishing

- OEM packaging and labelling
- Multi-component kit assembly
- Package and label design
- Label control and management



Product design and transfer

- Seamless transition of product and process
- Validation
- Equipment and method transfer



Quality control

- Custom testing and method validation
- Customised certificates and documentation
- Biological and analytical test capabilities



Quality assurance and regulatory

- ISO 9001; ISO 13485; FDA registered facilities
- Change control and full traceability
- Custom documents

Focus on your core business — let VWR take care of sourcing, production, testing and documentation of your chemicals

Products for the pharmaceutical industry

This is a selection of our raw materials and excipients for pharmaceutical production (compliance with the European Pharmacopoeia and/or other Pharmacopoeia are indicated in the specifications for each product).

If you would like another pack size, just contact our custom manufacturing service: https://uk.vwr.com/cms/chemicals_vwr_custom_manufacturing_services



Description

Pk	50	100	250	500	1	2,5	5	12	20	25	200
Size	g/ml	g/ml	g/ml	g/ml	kg/l	kg/l	kg/l	kg/l	kg/l	kg/l	l
Acetic acid 100% Ph. Eur./USP					20102.292	20102.320				20102.463	20102.550
Acetone Ph. Eur.					20165.298	20165.323	20165.367			20165.460	
Ammonium carbonate Ph. Franç					83516.290						
Ammonium sulphate NF/ACS/endotoxin tested					6496.1000		6496.5000			6496.9025	
L(+)-Ascorbic acid Ph. Eur./USP		83568.180			83568.290		83568.360			83568.460	
Barium sulphate, fine powder Ph. Eur.					21763.292		21763.463				
Bismuth (III) carbonate basic Ph. Eur.			83518.230								
Boric acid, crystallised Ph. Eur.					20181.294		20181.363			20181.465	
Calcium chloride dihydrate Ph. Eur./BP/USP/JP endotoxin tested					6495.1000					6495.9025	
Calcium chloride dihydrate Ph. Eur.					22322.295		22322.364			22322.466	
Cholesterol synthetic	3489-50G										
Citric acid, anhydrous, powder Ph. Eur.					20282.293		20282.362			20282.464	
Citric acid monohydrate, powder Ph. Eur.					85514.290		85514.360			85514.460	
Copper (II) sulphate 5 H ₂ O Ph. Eur.					83686.292		83686.361				
Dichloromethane stabilised Ph. Eur.					23365.290					23365.461	23365.552
Diethyl ether stabilised Ph. Eur.					23819.298		23819.367			23819.460	
Dimethyl sulphoxide Ph. Eur.					83529.290						
EDTA disodium salt dihydrate Ph. Eur./USP/BP/JP/ACS					20309.296		20309.365			20309.460	
Ethanol absolute Ph. Eur./USP					20816.298		20816.367			20816.470	
Ethanol 96% (v/v) Ph. Eur.					20905.296	20905.320	20905.365			20905.467	
Ethyl 4 amino benzoate Ph. Eur.	83530.150										
D(-)-Fructose Ph. Eur.					24282.290		24282.368			24282.461	
D-Galactose Ph. Eur./NF endotoxin tested					3441.1000		3441.5000			3441.9025	
Gelatine, powder Ph. Eur.			24360.233				24360.368				
D(+)-Glucose, anhydrous Ph. Eur./USP					284504S		284508W			28450BF	
D(+)-Glucose monohydrate Ph. Eur.					24369.290					24369.461	
L(+)-Glutamic acid Ph. Eur.			20350.232								
Glycerine (glycerol) Ph. Eur./BP/USP					24386.298		24386.367			24386.460	
Glycerol Ph. Eur.							24384.360			24384.460	24384.550
Gum tragacanth Ph. Eur./USP/NF				24437.260							
Hydrochloric acid 37% Ph. Eur.					20255.290	20255.324	20255.368		20255.440		
Hydrogen peroxide 30% stabilised Ph. Eur.			23622.260	23622.298	23622.330	23622.367				23622.467	
Iodine Ph. Eur.			24762.265	24762.290							
Iron (II) sulphate heptahydrate Ph. Eur.					24246.295						
Lactic acid 90% Ph. Eur.					20370.297		20370.366				
Magnesium chloride hexahydrate Ph. Eur./BP/USP					87060.290		87060.360			87060.460	
Magnesium hydroxide Ph. Eur.					25059.295					25059.466	
Magnesium oxide heavy Ph. Eur.					83540.290						
Magnesium sulphate, dried USP					7154.1000					7154.9025	
Magnesium sulphate heptahydrate Ph. Eur.					25167.298		25167.367			25167.460	
Magnesium sulphate heptahydrate Ph. Eur./BP/USP					6527.1000		6527.5000				
Manganese (II) sulphate monohydrate Ph. Eur./USP					6512.1000		6527.9025	6512.9012			
D(-)-Mannitol Ph. Eur./USP					25311.297		25311.366			25311.468	
Methanol Ph. Eur./NF/BP						6520.2500				6520.9025	6520.9200
DL Methionine Ph. Eur., USP					16236.297		16236.366				
Methyl 4-hydroxybenzoate Ph. Eur.					25604.290						
Orthophosphoric acid 85% Ph. Eur.					20626.292		20626.361			20626.463	
Paraffin, solidification point 52 - 54 °C, pellets Ph. Eur.					26157.291						
Paraffin, oil Ph. Eur. light							8577.5000				
Phenol, detached crystals Ph. Eur.					20596.297					20596.468	
Phenolphthalein Ph. Eur.		83544.180									
2-Phenoxyethanol Ph. Eur.					26244.290						

Description

Pk	50	100	250	500	1	2,5	5	12	20	25	200
Polyvinylpyrrolidone 40000 (K30) Ph. Eur.					26617.291		26617.360				
Potassium acetate Ph. Eur.					85507.290						
Potassium chloride Ph. Eur./USP					26760.295		26760.364			26760.466	
Potassium dihydrogen phosphate Ph. Eur./BP/NF, endotoxin tested					26921.295		26921.364			26921.466	
Potassium dihydrogen phosphate, crystallised Ph. Eur.					26922.295		26922.364			26922.466	
di-Potassium hydrogen phosphate Ph. Eur.					26932.290		26932.368			26932.461	
L(+)-Potassium hydrogen tartrate Ph. Eur.							27057.361				
Potassium hydroxide, pellets Ph. Eur.					26670.294		26670.363			26670.465	
Potassium iodide Ph. Eur.			26850.230	26850.260	26850.296		26850.365				
Potassium permanganate, crystallised Ph. Eur.					26904.293					26904.464	
Potassium dihydrogen phosphate Ph. Eur./NF/BP, endotoxin tested					26921.295		26921.364			26921.466	
Potassium sorbate, granules Ph. Eur./NF/BP					26976.291					26976.462	
2-Propanol Ph. Eur./USP					20904.293	20904.320	20904.360			20904.470	20904.550
Resorcinol Ph. Eur.					27379.294						
Salicylic acid, powder Ph. Eur.					20662.296					20662.467	
Silver nitrate Ph. Eur.		83517.180									
Sodium acetate trihydrate Ph. Eur./USP/BP					27649.297					27649.468	
Sodium benzoate Ph. Eur.					83551.290		83551.360				
Sodium carbonate, anhydrous Ph. Eur.					27767.295					27767.466	
Sodium carbonate decahydrate Ph. Eur.					27761.295					27761.460	
Sodium chloride Ph. Eur.					27808.297		27808.366			27808.468	
tri-Sodium citrate dihydrate, crystallised Ph. Eur./USP/BP					27831.297		27831.366			27831.468	
Sodium dihydrogen phosphate dihydrate Ph. Eur.					28014.291		28014.360				
Sodium fluoride Ph. Eur.					27859.293					27859.464	
Sodium hydrogen carbonate Ph. Eur.					27775.293		27775.362			27775.464	
di-Sodium hydrogen phosphate dihydrate Ph. Eur./USP					87010.290		87010.360			87010.460	
di-Sodium hydrogen phosphate dodecahydrate Ph. Eur.					28035.293		28035.362			28035.460	
Sodium hydroxide, pellets Ph. Eur./NF/BP/JP					28248.298		28248.367			28248.460	
Sodium iodide Ph. Eur.					27916.291		27916.360			27916.462	
DL-Sodium lactate 50% in aqueous solution Ph. Eur.					27927.298						
Sodium sulphate, anhydrous, fine powder Ph. Eur./USP					28105.295		28105.364			28105.466	
Sodium sulphite, anhydrous Ph. Eur.					28125.294		28125.363			28125.465	
di-Sodium tetraborate decahydrate Ph. Eur.					83555.290					83555.460	
D(+)-Sucrose (saccharose) Ph. Eur.					27483.294		27483.363			27483.465	
Sulphuric acid 96% Ph. Eur.					85508.290	85508.320					
Talc Ph. Eur.				83557.260			83557.360				
L(+)-Tartaric acid, powder Ph. Eur.					83511.290		83511.360				
Thymol Ph. Eur.		83558.180									
D-Trehalose Ph. Eur./NF endotoxin tested		3599.0100			3599.1000		3599.5000			3599.9025	
Trichloroacetic acid, crystallised Ph. Eur.					20741.290						
Tris(hydroxymethyl)aminomethane (Tris, Trometamol) Ph. Eur./USP					87020.290		87020.360			87020.460	
Vaseline white Ph. Eur.					28908.290						
Water Ph. Eur./USP/NF/USP/NF/JP purified							90200.5000	90200.9010		90200.9025	90200.9200
Zinc stearate Ph. Eur.							83563.370				
Zinc sulphate heptahydrate Ph. Eur./USP					29158.294		29158.363				

Aqueous solutions for biopharma

Concentration	2,5 l	10 l	25 l	200 l	210 kg
Acetic acid 30%	6516.2500		6516.9025	6516.9200	
Acetic acid 1 mol	6517.2500		6517.9025		
Acetic acid 75%	6519.2500		6519.9025		6519.9200
Hydrochloric acid 1 mol	85447.320		85447.460		
Hydrochloric acid 2 mol	85399.320		85399.460		
Hydrochloric acid 5 mol	85400.320		85400.460		
Hydrochloric acid 6 mol	85401.320		85401.460		
Hydrochloric acid 10% Ph. Eur.		5594.9010			
Sodium hydroxide 0,1 mol/l	85519.320		85519.460		
Sodium hydroxide 0,5 mol/l	85520.320		85520.460		
Sodium hydroxide 2 mol/l	85521.320		85521.460		
Sodium hydroxide 6 mol/l	85522.320		85522.460		
Sodium hydroxide 25%	85523.320		85523.460		
Sodium hydroxide 50%	85524.320		85524.460		

Biological buffers

Description	1 kg	5 kg	25 kg
HEPES free acid	30487.297	30487.366	30487.468
HEPES sodium salt	30567.297	30567.366	30567.468
PIPES free acid	73007.297	73007.366	73007.468
PIPES sequisodium salt	73257.297	73257.366	73257.468
PIPES disodium salt	73305.297	73305.366	73305.468
TRIS hydrochloride	85827.297	85827.366	85827.468

Carbohydrates

Description	500 g	1 kg	5 kg	25 kg
Glucose anhydrous Ph. Eur./USP	284504S		284508W	284508F
Glucose hydrated Ph. Eur.		24369.290	24369.368	24369.461
Fructose Ph. Eur.		24282.290	24282.368	24282.461
D-Galactose Ph. Eur./NF endotoxin tested		3441.1000	3441.5000	3441.9025
D-Trehalose Ph. Eur./NF endotoxin tested		3599.1000	3599.5000	3599.9025
Mannitol Ph. Eur./USP		25311.297	25311.366	25311.468
D(+) Saccharose Ph. Eur.		27483.294	27483.363	27483.465

Enabling your process with innovative choice



AVANTOR SERADIGM

- Foetal bovine serum
- Supply assurance
- Quality assurance measured at source
- Multiple lot testing
- Fully certified supply chain for traceability by the International Serum Industry Association (ISIA)
- Consistent, reliable performance

PRODUCTION CHEMICALS

- Biological buffers
- Carbohydrates
- Inorganic salts
- Media and additives
- Proteins and amino acids
- Excipients
- VWR custom manufacturing services
- Strategic sourcing
- cGMP-compliant warehousing

AVANTOR SINGLE-USE SOLUTIONS

- Standard and custom products
- Buffer and media transfer
- Sterile filtration
- Bioreactor feed and harvest
- Bulk drug substance
- Aseptic sampling and filling
- 2-D/3-D bag assemblies and tank liners
- Application-specific connections
- Sampling methods
- Mixing vessels

CONTROLLED ENVIRONMENT

- Reusable and disposable garments
- Gloves and fingercoats
- Wipes and swabs
- Detergents and disinfectants
- Cleaning systems
- Mats and flooring
- Labelling and documentation
- Environmental monitoring
- Equipment for contamination control (biosafety cabinets, tubing, etc)

[Click for more information](#)

Setting science in motion to create a better world



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