

EXCIPIENTS
AND RAW MATERIALS

FOR PHARMACEUTICAL AND
BIOPHARMACEUTICAL PRODUCTION

"Quality is not an act, it is a habit"

Aristotle, Greek philosopher and scientist (384 BC-322 BC)

EXCIPIENTS AND RAW MATERIALS
FOR PHARMACEUTICAL AND BIOPHARMACEUTICAL PRODUCTION





OUR POLYPHONY

1941 | Barcelona

Panreac

- > High purity analytical reagents
- > Raw materials for the pharmaceutical, food and cosmetic industries

1992 | Darmstadt

AppliChem

- > High purity analytical reagents
- > Products for molecular biology



Benchmark in the sector

Division of ITW, an American multinational
with a presence in 56 countries, and 56,000
employees around the world.

**2 production plants, Barcelona
and Darmstadt**

**3 Headquarters, Germany, Spain
and Italy.**

EXCIPIENTS AND RAW MATERIALS
FOR PHARMACEUTICAL AND BIOPHARMACEUTICAL PRODUCTION



PHARMA
in *CRESCENDO*



"Our experts in production ensure the supply of your raw materials accurately and reliably!"

José Antonio Ruiz

Vice General Manager and Division Operations Director

Partners for pharmaceutical production quality

Since the beginning, PanReac AppliChem has played an important role in the pharmaceutical and biopharmaceutical industries, producing and supplying the best raw materials to be used in manufacturing process or as excipients in the final formulation.

Being quality and reliability essential requirement of pharmaceutical and biopharmaceutical industries,

We offer products and documentation fitting this need

Highly demanding quality control

More than specifications, It is attitude. It is quality in our processes. PanReac AppliChem has an integrated management system implemented in all activities relevant to the following standards.

**ISO
9001:2008**
Quality Management

**ISO
14001:2004**
Environmental Protection

**OHSAS
18001:2007**
Occupational Health and
Safety Management

**IPEC/PQG
GMP Guide**
for pharmaceutical excipients



Our Quality Control Laboratories, fitted with the latest technologies, analyse and guarantee your products comply with the specifications of Pharmacopeia. From raw materials to final products, we ensure our products are safe across the entire value chain.

The technical data sheets, safety data sheets and certificates of analysis for all our products are available on our websites

www.panreac.com

www.applichem.com

EXCIPIENTS AND RAW MATERIALS
FOR PHARMACEUTICAL AND BIOPHARMACEUTICAL PRODUCTION



HARMONIZED SOLUTIONS

GMP-IPEC

PHARMA

BIOCHEMICA

CELL CULTURE

EXCIPIENTS AND RAW MATERIALS
FOR PHARMACEUTICAL AND BIOPHARMACEUTICAL PRODUCTION

GMP-IPEC Grade



THE GMP-IPEC GRADE (Highest quality standards + Specifications + Integral control policy)

Detailed
processes

Strict working
conditions

Supplier
audits

Full
traceability

Change
control

Our products meet the specifications defined in the latest version of USP and Ph. Eur., among other pharmacopeias. As part of the final drug, excipient plays a key role in risk control. Hence, the IPEC-PQG guide for Pharmaceutical Excipients was adopted in 2011.

For registering the product,

PanReac AppliChem delivers a file following the international CTD format

This file contains all information required in the ICH module 3. These include regulatory certificates, manufacturing and analytical procedures.



THE GMP-IPEC GRADE PROVIDES YOU WITH

Fast
registration

Necessary
documentation

Cost
saving

High quality and safe
raw materials

Pharma, Biochemica and Cell Culture Grade

- **Pharma grade product range** meets the specifications defined in the latest version of USP and Ph. Eur., among other pharmacopeias.
- **BioChemica and Cell Culture grade** guarantee stable and consistent biopharmaceutical production process (upstream).

Regulatory
certificates

High quality and safe
raw materials

Specific product for
specific process



EXCIPIENTS AND RAW MATERIALS
FOR PHARMACEUTICAL AND BIOPHARMACEUTICAL PRODUCTION





OUR MELODIES

EXCIPIENTS FOR
PHARMACEUTICAL PRODUCTION

This is a selection of products. If you are interested in a specific product that is not listed, please contact us.

> BINDERS AND FILLERS

631212	Calcium Carbonate precipitated (Ph. Eur, BP, USP) GMP - IPEC grade
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
633140	D(+)-Glucose 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade

> COATING AGENTS

631212	Calcium Carbonate precipitated (Ph. Eur, BP, USP) GMP - IPEC grade
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
633140	D(+)-Glucose 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
141545	1,2-Propanediol (USP, BP, Ph. Eur., JP) pure, pharma grade
142363	SDS (USP-NF, BP, Ph. Eur.) pure, pharma grade

> DILUENTS

631212	Calcium Carbonate precipitated (Ph. Eur, BP, USP) GMP - IPEC grade
141227	Calcium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
141226	Calcium Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
142728	D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade
142067	D(-)-Mannitol (USP, BP, Ph. Eur.) pure, pharma grade
631659	Sodium Chloride (Ph. Eur, BP, USP) GMP - IPEC grade

> EMULSIFYING AGENTS

142659	Oleic Acid (Ph. Eur.) pure, pharma grade
631655	tri-Sodium Citrate 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
631965	Sodium di-Hydrogen Phosphate 1-hydrate (BP, USP) GMP - IPEC grade
141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
141750	Triethanolamine (USP-NF) pure, pharma grade
191750	Triethanolamine (BP, Ph. Eur., USP-NF) pharma grade

> FLAVORING AGENTS

631808	Citric Acid anhydrous (Ph. Eur, BP, USP) GMP - IPEC grade
631018	Citric Acid 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
191318	Ethyl Acetate (BP, Ph. Eur.) pharma grade
142728	D(-)-Fructose (USP, BP, Ph. Eur.) pure, pharma grade
142344	Fumaric Acid (USP-NF) pure, pharma grade
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
633140	D(+)-Glucose 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
142042	L-Glutamic Acid (BP, Ph. Eur.) pure, pharma grade
631339	Glycerol (Ph. Eur, BP, USP) GMP - IPEC grade
141362	Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
631404	Magnesium Sulfate 7-hydrate (Ph. Eur, BP) GMP - IPEC grade
142067	D(-)-Mannitol (USP, BP, Ph. Eur.) pure, pharma grade
141621	D(+)-Sucrose (USP-NF, BP, Ph. Eur., JP) pure, pharma grade
191066	L(+)-Tartaric Acid (USP-NF, BP, Ph. Eur.) pharma grade

> LUBRICANTS

142436	Polyethylene Glycol 400 (USP-NF, BP, Ph. Eur.) pure, pharma grade
632438	Polyethylene Glycol 4000 flakes (Ph. Eur., BP) GMP - IPEC grade

141637	Sodium Benzoate (USP-NF, BP, Ph. Eur.) pure, pharma grade
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> pH ADJUSTMENT AND BUFFERS

141008	Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade
196884	Acetic Acid 25% w/w pharma grade
141097	Aluminium Chloride 6-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
141129	Ammonia 25% (as NH ₃) (BP, Ph. Eur.) pure, pharma grade
141121	Ammonium Chloride (USP, BP, Ph. Eur.) pure, pharma grade
141127	di-Ammonium Hydrogen Phosphate (USP-NF) pure, pharma grade
141015	Boric Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade
631808	Citric Acid anhydrous (Ph. Eur, BP, USP) GMP - IPEC grade
631018	Citric Acid 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
142344	Fumaric Acid (USP-NF) pure, pharma grade
631340	Glycine (Ph. Eur, BP, USP) GMP - IPEC grade
141020	Hydrochloric Acid 37% (USP-NF, BP, Ph. Eur.) pure, pharma grade
143006	Hydrochloric Acid 10% (Ph.Eur,NF) pure, pharma grade
141034	L(+)-Lactic Acid (BP, Ph. Eur.) pure, pharma grade
631404	Magnesium Sulfate 7-hydrate (Ph. Eur, BP) GMP - IPEC grade
141882	Maleic Acid (BP, Ph. Eur.) pure, pharma grade
141032	ortho-Phosphoric Acid 85% (USP-NF, BP, Ph. Eur.) pure, pharma grade
191490	Potassium Carbonate (USP, BP, Ph. Eur.) pharma grade
631492	tri-Potassium Citrate 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
631512	di-Potassium Hydrogen Phosphate anhydrous (Ph. Eur, BP, USP) GMP - IPEC grade
141509	Potassium di-Hydrogen Phosphate (USP-NF, BP, Ph. Eur.) pure, pharma grade
631515	Potassium Hydroxide 85% pellets (Ph. Eur, BP, USP-NF) GMP - IPEC grade
631632	Sodium Acetate 3-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
631648	Sodium Carbonate anhydrous (Ph. Eur., BP, USP-NF) GMP - IPEC grade
631655	tri-Sodium Citrate 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
631638	Sodium Hydrogen Carbonate (Ph. Eur, BP, USP) GMP - IPEC grade
141679	di-Sodium Hydrogen Phosphate anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
142507	di-Sodium Hydrogen Phosphate 2-hydrate (BP, Ph. Eur.) pure, pharma grade
141678	di-Sodium Hydrogen Phosphate 12-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
631965	Sodium di-Hydrogen Phosphate 1-hydrate (BP, USP) GMP - IPEC grade
141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
145881	Sodium Hydroxide micropearls (USP-NF) pure, pharma grade
631687	Sodium Hydroxide pellets (Ph. Eur, BP, USP, JP) GMP - IPEC grade
141929	Sodium Hydroxide pearls (USP-NF, BP, Ph. Eur.) pure, pharma grade
144320	Sodium Hydroxide solution 30% w/w pure, pharma grade
192415	Sodium Hydroxide 1 mol/l (1N) pharma grade
191066	L(+)-Tartaric Acid (USP-NF, BP, Ph. Eur.) pharma grade
141750	Triethanolamine (USP-NF) pure, pharma grade
191750	Triethanolamine (BP, Ph. Eur., USP-NF) pharma grade
141940	Tris (USP, BP, Ph. Eur.) pure, pharma grade

> PRESERVATIVES

141014	Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade
141081	Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade
141015	Boric Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade
144233	Butylhydroxyanisole (USP-NF, BP, Ph. Eur.) pure, pharma grade
631232	Calcium Chloride 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade
631808	Citric Acid anhydrous (Ph. Eur, BP, USP) GMP - IPEC grade
631018	Citric Acid 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
632825	Butylhydroxytoluene (Ph. Eur., BP, USP-NF) GMP - IPEC grade
631086	Ethanol absolute (Ph. Eur, BP, USP-NF, JP) GMP-IPEC grade
631085	Ethanol 96% v/v (Ph.Eur, BP, USP) GMP - IPEC grade

192695	Ethanol 70% v/v (BP) pharma grade
A0913	Ethanol 70 % pure DAB
141328	Formaldehyde 37-38% w/w stabilized with methanol (USP, BP, Ph. Eur.) pure, pharma grade
631339	Glycerol (Ph. Eur, BP, USP) GMP - IPEC grade
141323	Phenol 90% aqueous solution (USP) pure, pharma grade
631632	Sodium Acetate 3-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
141637	Sodium Benzoate (USP-NF, BP, Ph. Eur.) pure, pharma grade
141698	Sodium Disulfite (USP-NF, BP, Ph. Eur.) pure, pharma grade
143289	Sodium Formaldehyde Sulfoxylate x-hydrate (USP-NF) pure, pharma grade
141055	Sorbic Acid (USP-NF, BP, Ph. Eur.) pure, pharma grade

> SOLVENTS

631007	Acetone (Ph. Eur, BP, USP-NF) GMP - IPEC grade
141081	Benzyl Alcohol (USP-NF, BP, Ph. Eur.) pure, pharma grade
144720	Benzyl Benzoate (USP, BP, Ph. Eur.) pure, pharma grade
141254	Dichloromethane stabilized with ~ 20 ppm of amylene (USP-NF, BP, Ph. Eur.) pure, pharma grade
192770	Diethyl Ether anaesthetic stabilized with ~ 6 ppm of BHT (BP, Ph. Eur.) pharma grade
191954	Dimethyl Sulfoxide (USP, BP, Ph. Eur.) pharma grade
631086	Ethanol absolute (Ph. Eur, BP, USP-NF, JP) GMP-IPEC grade
631085	Ethanol 96% v/v (Ph.Eur, BP, USP) GMP - IPEC grade
192695	Ethanol 70% v/v (BP) pharma grade
A0913	Ethanol 70 % pure DAB
191318	Ethyl Acetate (BP, Ph. Eur.) pharma grade
631339	Glycerol (Ph. Eur, BP, USP) GMP - IPEC grade
141091	Methanol (USP-NF, BP, Ph. Eur.) pure, pharma grade
191315	Petroleum Ether 40-60°C (DAB) pharma grade
142436	Polyethylene Glycol 400 (USP-NF, BP, Ph. Eur.) pure, pharma grade
632438	Polyethylene Glycol 4000 flakes (Ph. Eur., BP) GMP - IPEC grade
631090	2-Propanol (Ph. Eur, BP, USP-NF) GMP - IPEC grade

> SURFACTANTS AND STABILIZERS

631212	Calcium Carbonate precipitated (Ph. Eur, BP, USP) GMP - IPEC grade
631669	EDTA Disodium Salt 2-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
633140	D(+)-Glucose 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
142363	SDS (USP-NF, BP, Ph. Eur.) pure, pharma grade
142312	Tween ® 20 (USP-NF, BP, Ph. Eur.) pure, pharma grade

> THERAPEUTIC AGENTS

141097	Aluminium Chloride 6-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
191101	Aluminium Sulfate 18-hydrate (BP, Ph. Eur.) pharma grade
141121	Ammonium Chloride (USP, BP, Ph. Eur.) pure, pharma grade
141127	di-Ammonium Hydrogen Phosphate (USP-NF) pure, pharma grade
142465	Barium Sulfate for radiology (BP, Ph. Eur.) pure, pharma grade
141014	Benzoic Acid (USP, BP, Ph. Eur.) pure, pharma grade
144720	Benzyl Benzoate (USP, BP, Ph. Eur.) pure, pharma grade
631232	Calcium Chloride 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade
141278	Collodion solution 4% w/v (USP) pure, pharma grade
141270	Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade
142344	Fumaric Acid (USP-NF) pure, pharma grade
631340	Glycine (Ph. Eur, BP, USP) GMP - IPEC grade
196997	Iron(III) Chloride solution 14% w/w (as Fe) pharma grade
631396	Magnesium Chloride 6-hydrate (Ph. Eur., BP) GMP - IPEC grade
631494	Potassium Chloride (Ph. Eur, BP, USP) GMP - IPEC grade
631492	tri-Potassium Citrate 1-hydrate (Ph. Eur, BP, USP) GMP - IPEC grade
141524	Potassium Nitrate without anticaking (BP, Ph. Eur.) pure, pharma grade

141545	1,2-Propanediol (USP, BP, Ph. Eur., JP) pure, pharma grade
631090	2-Propanol (Ph. Eur, BP, USP-NF) GMP - IPEC grade
631638	Sodium Hydrogen Carbonate (Ph. Eur, BP, USP) GMP - IPEC grade
191716	Sodium Sulfate anhydrous (USP, BP, Ph. Eur.) pharma grade
141721	Sodium Thiosulfate 5-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
141058	Sulfuric Acid 95-98% (USP-NF, BP, Ph. Eur.) pure, pharma grade
141067	Trichloroacetic Acid (BP, Ph. Eur.) pure, pharma grade
141940	Tris (USP, BP, Ph. Eur.) pure, pharma grade
191754	Urea crystalline (USP, BP, Ph. Eur.) pharma grade
631786	Zinc Oxide (Ph. Eur., BP, USP) GMP - IPEC grade
141787	Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

> THICKENERS

142436	Polyethylene Glycol 400 (USP-NF, BP, Ph. Eur.) pure, pharma grade
632438	Polyethylene Glycol 4000 flakes (Ph. Eur., BP) GMP - IPEC grade

> TONICITY AGENTS

631494	Potassium Chloride (Ph. Eur, BP, USP) GMP - IPEC grade
631659	Sodium Chloride (Ph. Eur, BP, USP) GMP - IPEC grade

> OTHER USES

141102	Aluminium Ammonium Sulfate 12-hydrate (USP) pure, pharma grade
142652	DL-Camphor synthetic (USP) pure, pharma grade
141077	Hydrogen Peroxide 33% stabilized (USP, BP, Ph. Eur.) pure, pharma grade
141351	Hydroquinone (USP) pure, pharma grade
141348	2-Methyl-2,4-Pentanediol (USP-NF) pure, pharma grade
141527	Potassium Permanganate (USP, BP, Ph. Eur.) pure, pharma grade
145642	Sodium Perborate 4-hydrate (BP, Ph. Eur.) pure, pharma grade

RAW MATERIALS FOR BIOPHARMACEUTICAL PRODUCTION

> AMINO ACIDS

A1688	L-Alanine (Ph. Eur., USP) pure, pharma grade
A1700	L-Arginine Hydrochloride (Ph. Eur., USP) pure, pharma grade
A1345	L-Arginine base (Ph.Eur.,USP) pure, pharma grade
A1668	L-Asparagine 1-hydrate (Ph.Eur.) pure, pharma grade
A1701	L-Aspartic Acid (Ph. Eur., USP) pure, pharma grade
A1702	L-Cysteine Hydrochloride 1-hydrate (Ph. Eur., USP) pure, pharma grade
A1425	L-Cysteine (DAB) pure, pharma grade
142042	L-Glutamic Acid (BP, Ph. Eur.) pure, pharma grade
A1420	L-Glutamine (DAB, USP) pure, pharma grade
631340	Glycine (Ph. Eur, BP, USP) GMP - IPEC grade
A1591	L-Histidine Hydrochloride 1-hydrate (Ph. Eur.) pure, pharma grade
A1341	L-Histidine base (USP, Ph.Eur.) pure, pharma grade
A3742	L-Hydroxyproline for cell culture
A1440	L-Isoleucine (Ph. Eur., USP) pure, pharma grade
A1426	L-Leucine (Ph. Eur., USP) pure, pharma grade
A1706	L-Lysine Monohydrochloride (Ph. Eur., USP) pure, pharma grade
A1340	L-Methionine (Ph. Eur., USP) pure, pharma grade
A1344	L-Phenylalanine (Ph. Eur., USP) pure, pharma grade
A1707	L-Proline (Ph. Eur., USP) pure, pharma grade

RAW MATERIALS FOR BIOPHARMACEUTICAL PRODUCTION

A1708	L-Serine (Ph. Eur., USP) pure, pharma grade
A1419	L-Threonine (Ph. Eur., USP) pure, pharma grade
A1645	L-Tryptophan (Ph. Eur., USP) pure, pharma grade
A1677	L-Tyrosine (Ph. Eur., USP) pure, pharma grade
A1637	L-Valine (USP, Ph.Eur.) pure, pharma grade

> SALTS AND BUFFERS

631232	Calcium Chloride 2-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade
141270	Copper(II) Sulfate 5-hydrate (BP, Ph. Eur.) pure, pharma grade
A3268	HEPES for cell culture
141362	Iron(II) Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
631396	Magnesium Chloride 6-hydrate (Ph. Eur., BP) GMP - IPEC grade
631494	Potassium Chloride (Ph. Eur., BP, USP) GMP - IPEC grade
631648	Sodium Carbonate anhydrous (Ph. Eur., BP, USP-NF) GMP - IPEC grade
631659	Sodium Chloride (Ph. Eur., BP, USP) GMP - IPEC grade
631638	Sodium Hydrogen Carbonate (Ph. Eur., BP, USP) GMP - IPEC grade
142507	di-Sodium Hydrogen Phosphate 2-hydrate (BP, Ph. Eur.) pure, pharma grade
141677	Sodium di-Hydrogen Phosphate 2-hydrate (USP, BP, Ph. Eur.) pure, pharma grade
141787	Zinc Sulfate 7-hydrate (USP, BP, Ph. Eur.) pure, pharma grade

> VITAMINS AND COFACTORS

A4065	DL- α -Lipoic Acid BioChemica
A0959	Nicotinamide (Ph. Eur., USP) pure, pharma grade
A6279	Riboflavin (Ph. Eur., USP) pure, pharma grade

> CARBON SOURCES

A7983	D(+)-Galactose BioChemica, non animal origin
141341	D(+)-Glucose anhydrous (USP, BP, Ph. Eur.) pure, pharma grade
633140	D(+)-Glucose 1-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade
631339	Glycerol (Ph. Eur., BP, USP) GMP - IPEC grade
A1716	myo-Inositol BioChemica
A9686	D(+)-Trehalose 2-hydrate endotoxin free
A1742	D(+)-Trehalose dihydrate BioChemica
A3912	Sodium Pyruvate BioChemica

> OTHER INGREDIENTS AND SUPPLEMENTS

A0847	Albumin - H1
A0848	Albumin - H2
A0846	Albumin crystallized
A1008	IPTG BioChemica
A4778	Linoleic Acid for cell culture
A1288	Pluronic® F-68 BioChemica
A3124	holo-Transferrin, human
A3008	apo-Transferrin, human

> PROTEIN PROCESSING

A1032	Ammonium Sulfate BioChemica
63B764	6-Aminohexanoic Acid (Ph. Eur., BP, USP) GMP - IPEC grade
A3240	Guanidine hydrochloride ultrapure
A1703	L-Cystine (Ph. Eur.) pure, pharma grade
A2084	L-Glutathione reduced BioChemica

A3711	Lysozyme BioChemica
192786	Octanoic Acid (BP, Ph. Eur.) pharma grade
A4289	Pepsin
A1388	Triton® X-100 BioChemica
A4148	Trypsin 1 : 250 from porcine pancreas
A3964	Trypsin from bovine pancreas
191754	Urea crystalline (USP, BP, Ph. Eur.) pharma grade

> ACIDS AND BASES

141008	Acetic Acid glacial (USP, BP, Ph. Eur.) pure, pharma grade
196884	Acetic Acid 25% w/w pharma grade
631808	Citric Acid anhydrous (Ph. Eur., BP, USP) GMP - IPEC grade
631018	Citric Acid 1-hydrate (Ph. Eur., BP, USP) GMP - IPEC grade
141032	ortho-Phosphoric Acid 85% (USP-NF, BP, Ph. Eur.) pure, pharma grade
631687	Sodium Hydroxide pellets (Ph. Eur., BP, USP, JP) GMP - IPEC grade

NOTES



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