

PHARMPROVE®

Multi-compendial bioprocessing
chemicals and excipients



FACTS

Qualified partner of global (bio)pharma companies

"Made in Germany"

Multi-compendial bioprocessing chemicals for use
as raw material or excipients

Production facility with cleanrooms class C&D

- EU GMP certified acc. to Part 1 + 2
- IPEC-GMP for excipients certified by EXCiPACT

Pharmacopoeia-compliant raw materials
(e.g. EP, BP, USP, JP, ChP)

Microbiological controlled raw materials with low
impurity profile of endotoxins and bioburden

Warehouse and logistics

- 3,200 pallet spaces for packaging materials, raw materials and finished products, temperature controlled
- Additional external storage capacities at warehousing service provider
- Customized logistics concepts

Your challenge – Our solution

CUSTOMER IN FOCUS

Our concept:
tailored solutions to meet your specific needs

As a trusted partner of manufacturers for plasma-derived therapeutics and biologic drugs, CG Pharma & Biotech serves as a preferred partner for major (bio)pharma companies, supporting the industry's growing trend toward outsourcing buffers, process solutions as well as critical raw materials. Our mission is to enable Global biopharma companies to strengthen and localize their supply chains. With innovative solutions, we drive efficiency and sustainability across the industry. We are dedicated in supporting our customers reaching their strategic objectives while upholding the highest standards of quality.

C-MADE

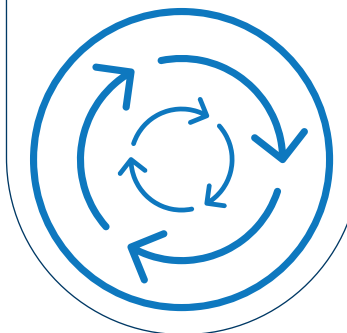
Manufacturing and development of **customised formulations** for the (bio)pharma production process – upstream, downstream and final formulation steps

LIQUIDS

customised formulations

SOLIDS

customised formulations
simple and highly complex mixtures



PHARMPROVE®

Multi-compendial bioprocessing chemicals for use as raw material or excipient for manufacturing of (bio)pharmaceuticals

LIQUIDS

single components

SOLIDS

single components



OUR CORE MARKETS

Our customers are leading companies in the (bio)pharmaceutical industry who rely on our expertise and high-quality products for a wide range of applications. We support critical processes and product development in areas such as:

Biotechnology-based drug substances and drug products

- Vaccines (mRNA, recombinant DNA, cell culture-based and vector-based)
- ATPMs (Advanced Therapy Medicinal Products), including cell and gene therapies
- Cell culture media
- Monoclonal antibodies (mAbs)
- Biosimilars

Biological medicinal products

- Plasma-derived medicinal products (PDMP)
- Enzymes
- Heparins

Classic pharmaceuticals (chemical/synthetic drugs, APIs)

- Solid, liquid and semi-solid oral formulations
- Inhalation formulations
- Ophthalmic formulations
- Dialysis formulations

PHARMPROVE®

Multi-compendial bioprocessing chemicals

PharmProve combines “Pharm”, which is a clear reference to pharmaceuticals, with “Prove”, which underlines a commitment to demonstrating the quality and efficacy of the materials we supply. We offer a range of multi-compendial production chemicals prepared to serve as ingredients, starting materials or excipients. Our comprehensive portfolio is designed to seamlessly integrate into your manufacturing processes, ensuring the highest standards of quality, safety, and efficacy.





THE CG QUALITY COMMITMENT

We are committed to continuous improvement and ongoing alignment with global GMP and quality standards to support the evolving needs of our clients and uphold the highest levels of patient safety. Our commitment to quality protects your processes and gives you peace of mind—so you can focus on your core business.

THE CG QUALITY SYSTEM		
Manufacturing authorisation in accordance with the German Medicinal Products Act AMG §13	Change control management	Management of pharmacopoeia-compliant raw materials (e.g. EP, BP, USP, JP, ChP)
Highest standard: EU GMP-certified, inspected facility for raw material production	Quality assurance agreements with customers and suppliers	In-house chemical/physical analytical laboratory
	Validated procedures and processes	
IPEC-GMP for excipients certified by EXCiPACT standard	Batch record management	Microbiological testing (e.g. sterility, endotoxins, RNase, bioburden)
Risk management system according to ICH Q9	Ensuring pharmaceutical product compliance	Environment and sustainability: ISO 50001, ISO 14001, SQAS/ESAD, responsible care, EcoVadis
Supplier qualification system	Stability testing	Kosher/halal certifications

THE PHARMPROVE® CATALOGUE

Comprehensive range of
high-quality chemical raw materials

Our product portfolio is tailored to support (bio)pharmaceutical manufacturers to develop safe, effective, and innovative products that improve global healthcare. With a commitment to product quality and regulatory compliance, our portfolio offers a wealth of solutions for pharmaceutical formulation and manufacturing.

EXCIPIENTS

- Amino acids
- Buffers
- Carbohydrates
- Chlorides
- Citrates
- Cleaning in place solutions
- Phosphates
- Specialty components
- Sterile-filtered bio-process solutions
- Sulphates



PRODUCT PORTFOLIO

PharmProve®

AMINO ACIDS						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Glycine	EP, BP, USP	PharmProve®	56-40-6	x	x	x
L-Arginine	EP, BP, USP	PharmProve®	74-79-3	x	x	x
L-Arginine HCL	EP, BP, USP	PharmProve®	1119-34-2	x	x	x
L-Histidine	EP, BP, USP	PharmProve®	71-00-1	x	x	x
L-Histidine monohydrochloride	EP, BP	PharmProve®	5934-29-2	x	x	x

BUFFERS						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
HEPES	in-house standard	PharmProve®	7365-45-9	x	x	x
HEPES sodium	in-house standard	PharmProve®	75277-39-3	-	-	-
Tris (Trometamol base)	EP, BP, USP, ChP, JP	PharmProve®	77-86-1	x	x	x
Tris (Trometamol hydrochloride)	in-house standard	PharmProve®	1185-53-1	x	x	x

CARBOHYDRATES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Dextrose anhydrous	EP, BP, USP	PharmProve®	50-99-7	x	x	x
Dextrose monohydrate	EP, BP, USP	PharmProve®	5996-10-1	x	x	x
D-(+)-Galactose	EP, BP, USP/NF	PharmProve®	59-23-4	x	x	x
Maltose monohydrate	based on USP/NF	PharmProve®	6363-53-7	x	x	x
Mannitol	EP, BP, USP	PharmProve®	69-65-8	x	x	x
Sorbitol	EP, BP, USP/NF	PharmProve®	50-70-4	x	x	x
Sucrose	EP, BP, NF, JP, ChP	PharmProve®	57-50-1	x	x	x

CHLORIDES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Sodium chloride	EP, BP, USP	PharmProve®	7647-14-5	x	x	x

CITRATES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Citric acid anhydrous	EP, BP, USP	PharmProve®	77-92-9	x	x	x
Citric acid monohydrate	EP, BP, USP	PharmProve®	5949-29-1	x	x	x
Tri-sodium citrate anhydrous	USP	PharmProve®	6132-04-3	x	x	x
Tri-sodium citrate dihydrate	EP, BP, USP	PharmProve®	6132-04-3	x	x	x

* Total yeast and mould count ** Total aerobic microbial count *** Bacterial endotoxins test

CLEANING-IN-PLACE SOLUTIONS (CIP)						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Acetic acid (glacial) 100 %	EP, USP, JP	PharmProve®	64-19-7	-	-	-
Citric acid 50%	in-house standard	PharmProve® Plus	N/A	-	-	-
Hydrochloric acid 1M	in-house standard	PharmProve® Plus	7647-01-0	-	-	-
Hydrochloric acid 10%	EP, USP/NF	PharmProve® Plus	7647-01-0	-	-	-
Hydrochloric acid 37 %	EP, USP/NF	PharmProve®	7647-01-0	-	-	-
Phosphoric acid 85%	EP, USP/NF,ChP, JPE	PharmProve®	7664-38-2	-	-	-
Sodium hydroxide pellets	EP, BP, USP/NF	PharmProve®	1310-73-2	-	-	-
Sodium hydroxide solution 1M	in-house standard	PharmProve® Plus	N/A	x	x	x
Sodium hydroxide solution 10M	in-house standard	PharmProve® Plus	N/A	-	-	-
Sodium hydroxide solution 45%	in-house standard	PharmProve® Plus	N/A	-	-	-

HIGH QUALITY WATER						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Purified Water (AP)	EP	PharmProve® Plus	7732-18-5	x	x	x
Water for Injection (Wfi)	EP	PharmProve® Plus	7732-18-5	x	x	x

PHOSPHATES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Sodium dihydrogen phosphate dihydrate	EP, BP, USP	PharmProve®	13472-35-0	x	x	-

SPECIALTY COMPONENTS						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
1,2 Propylene Glycol	EP, USP/NF	PharmProve®	57-55-6	x	x	x
Adipic acid	EP, USP, JPE	PharmProve®	124-04-9	x	x	x
Ascorbic acid	EP, USP	PharmProve®	50-81-7	x	x	x
Glycerol 99% (vegetable)	EP, USP/NF	PharmProve®	56-81-5	x	x	x
Glycerol 99% (synthetic)	EP, USP/NF	PharmProve®	56-81-5	x	x	x
Guandine Hydrochloride	USP/NF	PharmProve®	50-01-1	x	x	x
Macrogol 4,000 powder	EP, USP/NF	PharmProve®	25322-68-3	x	x	x
Methyl Parabene	EP, USP/NF	PharmProve®	99-76-3	x	x	x
Octoxynol (Triton X-100 substitute)	EP	PharmProve®	9002-93-1	x	x	x
Polysorbate 80	EP, BP, USP/NF	PharmProve®	9005-65-6	x	x	x
Tri-n-Butylphosphate	EP	PharmProve®	126-73-8	-	-	-

SULPHATES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Ammonium sulphate	USP/NF	PharmProve®	7783-20-2	x	x	x

* Total yeast and mould count ** Total aerobic microbial count *** Bacterial endotoxins test

DEVELOPMENT PIPELINE – PLANNED PRODUCT EXPANSION (2026/2027)

PharmProve®

AMINO ACIDS						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
L-Alanine	EP, BP, USP	PharmProve®	56-41-7	x	x	x
L-Glutamic acid	EP, BP, USP	PharmProve®	56-86-0	x	x	x
L-Isoleucine	EP, BP, USP	PharmProve®	73-32-5	x	x	x
L-Leucine	EP, BP, USP	PharmProve®	61-90-5	x	x	x
L-Lysine mono-HCL	EP, BP, USP	PharmProve®	657-27-2	x	x	x
L-Methionine	EP, BP, USP	PharmProve®	63-68-3	x	x	x
L-Phenylalanine	EP, BP, USP	PharmProve®	63-91-2	x	x	x
L-Proline	EP, BP, USP	PharmProve®	147-85-3	x	x	x
L-Serine	EP, BP, USP	PharmProve®	56-45-1	x	x	x
L-Threonine	EP, BP, USP	PharmProve®	72-19-5	x	x	x
L-Tryptophan	EP, BP, USP	PharmProve®	73-22-3	x	x	x
L-Valine	EP, BP, USP	PharmProve®	72-18-4	x	x	x

CARBOHYDRATES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Trehalose	EP, BP, USP/NF	PharmProve®	99-20-7	x	x	x

* Total yeast and mould count ** Total aerobic microbial count *** Bacterial endotoxins test

PHOSPHATES						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Di-potassium hydrogen phosphate anhydrous	EP, BP, USP	PharmProve®	7758-11-4	x	x	x
Di-potassium hydrogen phosphate trihydrate	EP, BP, USP	PharmProve®	16788-57-1	x	x	x
Di-sodium hydrogen phosphate dihydrate	EP, BP, USP	PharmProve®	10028-24-7	x	x	x
Potassium dihydrogen phosphate monobasic	EP, BP, USP	PharmProve®	7778-77-0	x	x	x
Sodium dihydrogen phosphate anhydrous	EP, BP, USP	PharmProve®	7558-80-7	x	x	x
Sodium dihydrogen phosphate monohydrate	EP, BP, USP	PharmProve®	10049-21-5	x	x	x
Sodium phosphate monobasic anhydrous	EP, BP, USP	PharmProve®	7558-79-4	x	x	x

SPECIALTY COMPONENTS						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Boric acid powder	EP, USP/NF	PharmProve®	10043-35-3	x	x	x
EDTA disodium salt	USP	PharmProve®	139-33-3	x	x	x
Macrogol 6,000 powder	EP, USP/NF	PharmProve®	25322-68-3	x	x	x
Poloxamer 188	EP, BP, USP/NF	PharmProve®	9003-11-6	x	x	x
Propyl Parabene	EP, USP/NF	PharmProve®	94-13-3	x	x	x
Sodium sulphite anhydrous	EP	PharmProve®	7757-83-7	x	x	x

STERILE-FILTERED BIO-PROCESS SOLUTIONS IN SINGLE USE BAGS						
PRODUCT	QUALITY	BRAND	CAS. NO	TYMC*	TAMC**	BET***
Sodium hydroxide solution 10 mM	in-house standard	PharmProve® Plus	N/A	x	x	x
Sodium hydroxide solution 0,1 M	in-house standard	PharmProve® Plus	N/A	x	x	x
Sodium hydroxide solution 0,5 M	in-house standard	PharmProve® Plus	N/A	x	x	x
Sodium hydroxide solution 1 M	in-house standard	PharmProve® Plus	N/A	x	x	x

* Total yeast and mould count ** Total aerobic microbial count *** Bacterial endotoxins test

PACKAGING SOLUTIONS

For (bio)pharmaceutical raw materials:
ensuring quality, safety and regulatory compliance



SOLID	
PRIMARY PACKAGING	SECONDARY PACKAGING KG
LDPE flat bag "GMP-Grade", 200 mm x 300 mm	Plastic can 1,300 ML (HDPE)
LDPE flat bag "GMP-Grade", 300 mm x 500 mm	Plastic wide-neck drum "round", 6 L (HDPE)
LDPE flat bag "GMP-Grade", 500 mm x 700 mm	Plastic pail "round", 15 L (HDPE)
LDPE flat bag "GMP-Grade", 600 mm x 800 mm	Plastic pail "round", 25 L (HDPE)
	Cardboard box, 553 mm x 553 mm x 199 mm
	Cardboard box, 400 mm x 400 mm x 200 mm
PE cross-bottom bag with PE inliner "Bag in Bag", "GMP-Grade", 450 mm x 800 mm x 130 mm	without - not necessary
PE flat bag, 760 mm x 1,050 mm	Plastic pail "square", 35 L (HDPE)

PALLETS (liquids and solids)			
Euro pallet (wood)	Euro pallet (plastic)	CP1 pallet (wood)	CP3 pallet (wood)

LIQUID (sterile filtered solutions)	
PRIMARY PACKAGING	SECONDARY PACKAGING
5 L 2D bag	Cardboard box for 5 L 2D bags
20 L 2D bag	Cardboard box for 20 L 2D bags
50 L 2D bag/3D drum bag	PE box with lid for 50 L 2D bags
	Plastic drum with lid for 50 L 3D drum bags
100 L 3D bag/3D drum bag	Plastic drum with lid for 100 L 3D drum bags
	Plastic transport container for 100 L 3D bags CG Tainer 250
200 L 3D bag/3D drum bag	Steel drum with lid for 200 L 3D drum bags
	Plastic transport container for 200 L 3D bags CG Tainer 250
500 L 3D bag	Plastic transport container for 500 L 3D bags CG Tainer 500
	Stainless steel transport container for 500 L 3D bags Bagtainer R®
1,000 L 3D bag	Plastic transport container for 1,000 L 3D bags CG Tainer 1000

LIQUID (non-sterile filtered solutions)			
Plastic canister 10 L	Plastic canister 25 L	Plastic drum 220 L	Plastic IBC/FDA 1,000 L

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