Product Specification

Product group: Lactose
Brand name: Lactochem® Powder
Product description: Lactose monohydrate
Article No: 502057, 504143

Description: α-lactose monohydrate pharmaceutical grade conform **USP - NF, Ph.Eur, JP**

Physical-Chemical data:	**Specification**
Identification	conform USP - NF, Ph.Eur, JP
Appearance of solution (Ph.Eur.)	Clear and not more coloured than ref. BY 7
Residue on ignition	max. 0.1 %
Total Water	4.5 – 5.5 %
Loss on drying	max. 0.5 %
Acidity	max. 0.4 ml 0.1 N NaOH
Specific Optical Rotation (on anhydrous basis)	+54.4° to +55.9°
Absorbance between 210-220 nm (1%, 1 cm)	max. 0.25
Absorbance between 270-300 nm (1%, 1 cm)	max. 0.07
Absorbance at 400 nm (10%, 1 cm)	max. 0.04
Heavy metals	max. 5 ppm

Microbiological data:	**Specification**
TAMC	max. 100 / g
Bile tolerant gram negative bacteria	absent in 1 g
Escherichia coli	absent in 10 g
Salmonellae	absent in 5x25 g
TYMC	max. 10 / g

Particle size distribution: (Airjet sieve analysis, Alpine)

< 75 micron[1]	65 – 80 %
< 106 micron	min. 85 %
< 150 micron	min. 95 %

1.<75 micron specification applicable to 504143 only

The document is an uncontrolled copy and is valid only at the time of distribution. Timestamp: 16-11-2026; 10:52 UTC
Klever Strasse 187, 47574 Goch, Germany, P.O. Box 20 21 20, 47568 Goch, Germany, T. +49 2823 9288 770, F. +49 2823 9288 7799
Release date: 07-10-2026

Product Specification

Product group:	Lactose
Brand name:	Lactochem® Powder
Product description:	Lactose monohydrate
Article No:	502057, 504143
Document No.:	PD-0385 Page 2 of 2

Packaging:
A multiply paper bag with polyethylene inner liner, 25 kg net;

Storage:
Keep in original, unopened packing and away from strongly odorous materials.
Store at room temperature (normal warehouse conditions), allowing temporary excursions.

Retest date:
For storage periods exceeding 36 months we recommend re-testing

This document substitutes all previous versions issued for the brand names mentioned above.
We trust this information, which is made up to the best of our knowledge, will be helpful to you.

Name : Dr. Bastiaan Dickhoff
Job title : Director Innovation & Technical Solutions

Signature : 

This document is controlled by a validated, electronic system and is valid without signature.
The above facsimile signature is only for display.

The document is an uncontrolled copy and is valid only at the time of distribution. Timestamp: 16-11-2026; 10:52 UTC
Klever Strasse 187, 47574 Goch, Germany, P.O. Box 20 21 20, 47568 Goch, Germany, T. +49 2823 9288 770, F. +49 2823 9288 7799
Release date: 07-10-2026