

# Product Specification

Product group: Lactose  
Brand name: Lactochem® Crystals  
Product description: Lactose monohydrate  
Article No: 0501982  
Document No.: PD-0388 Page 1 of 2

## Description:

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

## Physical-Chemical data:

Identification  
Appearance of solution (Ph.Eur.)  
Residue on ignition  
Total Water  
Loss on drying  
Acidity  
Specific Optical Rotation (on anhydrous basis)  
Absorbance between 210-220 nm (1%, 1 cm)  
Absorbance between 270-300 nm (1%, 1 cm)  
Absorbance at 400 nm (10%, 1 cm)  
Heavy metals

## Specification

conform USP - NF, Ph.Eur, JP  
Clear and not more coloured than ref. BY 7  
max. 0.1 %  
4.5 – 5.5 %  
max. 0.5 %  
max. 0.4 ml 0.1 N NaOH  
+54.4° to +55.9°  
max. 0.25  
max. 0.07  
max. 0.04  
max. 5 ppm

## Microbiological data:

TAMC  
Bile tolerant gram negative bacteria  
Escherichia coli  
Salmonellae  
TYMC

## Specification

max. 100 / g  
absent in 1 g  
absent in 10 g  
absent in 5x25 g  
max. 10 / g

## Particle size distribution: (Airjet sieve analysis, Alpine)

< 75 micron	5 – 30 %
< 150 micron	55 – 95 %
< 250 micron	min. 90 %

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**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** : 

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