

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

## Description:

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

## Physical-Chemical data:

Identification  
Appearance in solution  
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 nearly colourless  
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 % |

# Product Specification

Product group: Lactose  
Brand name: Lactochem® Crystals  
Product description: Lactose monohydrate  
Document No.: PD-0388 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.  
Temperature averaging between 5 and 25 °C, relative humidity of max. 70%  
**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** : Rutger Drost  
**Job title** : Global Marketing, Innovation & Technology Director  
**Signature** : 

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