



# Product Specification

Product group: Lactose  
 Brand name: SuperTab® 14 SD  
 Product description: Lactose monohydrate  
 Article code: 743721  
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Manufacturing site: DFE Pharma GmbH & Co.KG, Nörten Hardenberg, Germany  
 Product name: SuperTab® 14SD  
 Conforms to USP - NF, Ph.Eur., JP, ChP Lactose monohydrate monograph, current at time of manufacture  
 Product description: A white or almost white, crystalline powder freely soluble in water, practically insoluble in ethanol  
 Residual solvents  
 (CPMP/ICH/283/95): No class 1,2,3 solvents are used during production  
 Identification: Complies with Pharmacopoeia when tested

## **Physical-Chemical data:**

Appearance of solution (Ph.Eur.)  
 Clarity and Colour of Solution  
 Residue on ignition/Sulphated ash  
 Water (KF)  
 Loss on drying  
 Acidity or Alkalinity (ml 0.1 N NaOH/6 g)  
 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  
 Arsenic  
 Assay by HPLC  
 Identify material by HPLC  
 Related substances by HPLC

## **Specification**

Clear and not more coloured than ref. BY 7  
 Clear and colourless or nearly colourless  
 max. 0.10 %  
 4.5 - 5.5 %  
 max. 1.0 %  
 max. 0.4  
 +54.4° to +55.9°  
 max. 0.25  
 max. 0.07  
 max. 0.04  
 max. 5 ppm  
 max. 2 ppm  
 98 – 102 %  
 pass  
 max. 0.5 %

## **Microbiological data:**

Total aerobic microbial count  
 Yeasts and Moulds  
 E. coli  
 Salmonella

## **Specification**

max. 100 cfu/g  
 max. 10 cfu/g  
 neg. in 10 g  
 neg. in 100 g



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### Particle size distribution (Air jet sieve)

< 45 µm  
<100 µm  
<250 µm

### Specification

max. 15 %  
30 – 60 %  
min. 98 %

### Particle size (Laser diffraction, dry)

D 10  
D 50  
D 90

Value reported micron  
Value reported micron  
Value reported micron

**Packaging:** A drum with polyethylene inner liner

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

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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