



# Product Specification

Product group: Lactose  
 Brand name: SuperTab® 22AN  
 Product description: Anhydrous lactose  
 Article code: 743714  
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Manufacturing site: DFE Pharma GmbH & Co.KG, Nörten Hardenberg, Germany  
 Product name: SuperTab® 22AN  
 Conforms to Ph.Eur Lactose monograph / USP - NF, JP, ChP Anhydrous Lactose 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)  
 Content of Alpha and Beta Lactose  
 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 %  
 max. 1.0 %  
 max. 0.5 %  
 max. 0.4  
 Report value  
 +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  
<150 µm  
<250 µm

**Specification**

max. 7 %  
25 – 50 %  
min. 65 %

**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** :

A handwritten signature in blue ink that reads 'B. Dickhoff'.

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