

# **Product Specification**

Product group: Inhalation

Brand name: Lactohale® 220

Product description:Lactose monohydrate

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### Description:

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

## Physical-Chemical data:

Identification

Appearance in solution

Assay

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)

Protein content (Bradford)

Heavy metals

Arsenic

Chromatography impurity

### **Specification**

conform USP - NF, Ph.Eur, JP

clear and nearly colourless

97-103%

max. o.1 %

4.5 – 5.5 %

max. 0.5 %

max. o.4 ml o.1 N NaOH

+54.4° to +55.9°

max. 0.25

max. 0.07

max. 0.04

max. 0.02 %

max. 5 ppm

max. 1 ppm

max. 0.2 %

### Microbiological data:

TAMC
Bile tolerant gram negative bacteria
Escherichia coli
Salmonellae

TYMC

Staphylococcus aureus Pseudomonas aeruginosa Burkholderia cepacia

Bacterial endotoxine

Specification max.

less than

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

5 EU /g

## Particle size distribution (Sympatec R4 lens)



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Packaging:

A polyethylene inner liner in an aluminium foil in a multiply paper box, 15 kg net

Storage:

 $\label{thm:conditional} \textbf{Keep in original, unopened packing and away from strongly odorous materials.}$ 

Store at room temperature (normal warehouse conditions), allowing temporary

excursions from these conditions

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.