

## **Product Specification**

Product group: Inhalation

Brand name: Lactohale® 201

Product description:Lactose monohydrate

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#### **Description:**

### **Physical-Chemical data:**

Infrared absorption spectrum / Id A Water / Id D Ph.Eur.
Appearance in solution

Lactose colour of sol. Lactose clarity of sol.

Absorbance between 210-220 nm (1%, 1 cm) Absorbance between 270-300 nm (1%, 1 cm)

Absorbance at 400 nm (10%, 1 cm)

Acidity

Specific Optical Rotation (on anhydrous basis)

Heavy metals Loss on drying Residue on ignition

Lactose

Chromatography impurity Protein content (Bradford)

Arsenic

Assay by HPLC

**Endotoxines** 

Identification by HPLC Related substances by HPLC

#### Microbiological data:

TAMC
TYMC
Bile tolerant gram negative bacteria
Escherichia coli
Salmonellae
Staphylococcus aureus
Pseudomonas aeruginosa
Burkholderia cepacia

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

#### **Specification**

conform to reference

4.5 - 5.5 %

Not more intensely coloured than ref.BY7 Nearly colourless Pass

Clear max. 0.25 max. 0.07 max. 0.04

max. o.4 ml o.1 N NaOH

+54.4° to +55.9° max. 5 ppm max. 0.5 % max. 0.1 % 97 – 103% max. 0.2 % max. 0.02 %

≤2

98.0-102.0

Pass Pass

## **Specification**

max. 10 / g max. 10 / g absent in 10 Q absent in 10 g absent in 5x25 g absent in 10 g absent in 10 q absent in 10 q less than 5 EU /g



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Particle size distribution (Sympatec)

Packaging: A polyethylene inner liner in an aluminium foil in a multiply paper box, 20 kg net

**Storage:** 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 : Dr. Bastiaan Dickhoff

Job title : Director Innovation & Technical Solutions

B. Dickhaff

Signature

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