

## **Product Specification**

Product group: Inhalation

**Specification** 

97-103%

max. o.1 %

4.5 - 5.5 %

max. 0.5 %

max. 0.25

max. 0.07

max. 0.04

max. 0.02 %

max. 5 ppm

max. 0.2 %

max.

max.

absent in

absent in

absent in

absent in

absent in

absent in

less than

**Specification** 

+54.4° to +55.9°

Brand name: Lactohale® 230

conform USP - NF, Ph.Eur, JP

clear and nearly colourless

max. o.4 ml o.1 N NaOH

10 / g

10 g

10 Q

5x25 g

10 / g

10 g

10 g

10 g

5 EU /g

Target

Product description:Lactose monohydrate

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#### Description:

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

#### **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

Chromatography impurity

### Microbiological data:

TAMC
Bile tolerant gram negative bacteria

Escherichia coli Salmonellae

TYMC

Staphylococcus aureus

Pseudomonas aeruginosa

Burkholderia cepacia

Bacterial endotoxine

#### Particle size distribution (Sympatec R2 lens)

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D 10	1.0 – 3.0 μm	_
D 50	< 10 µm	8 – 9 micron
D 90	< 30 µm	< 25 micron

DFE Pharma GmbH & Co. KG



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Product group:

Inhalation

Brand name:

Lactohale® 230

Product description:Lactose monohydrate

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Packaging:

A polyethylene inner liner in an aluminium foil in a multiply paper box, 10 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.

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