

Product Specification

Product group: Lactose

Brand name: Pharmatose® 450M

Article code: 659140/659141

Product description:Lactose monohydrate

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Manufacturing site: FrieslandCampina DMV BV, Veghel, The Netherlands

Product name: Pharmatose® 450M

Conforms to USP - NF, Ph.Eur., JP 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

Specification

Water (KF) 4.5 - 5.5 % Loss on drying max. 0.5 %

Specific optical rotation:

 $[\alpha]^{20}_D$, anhydrous basis +54.4° to +55.9° Residue on ignition/Sulphated ash max. 0.10 %

Proteins and Light Absorbing Impurities

[A] 1%, 1 cm at 270 - 300 nm max. 0.07 [A] 1%, 1 cm at 210 - 220 nm max. 0.25

Appearance of solution (Ph.Eur.) Clear and not more

coloured than ref. BY 7 Clear and colourless

Clarity and Colour of Solution Clear and colourless or nearly colourless

[A] 10%, 1 cm at 400 nm max. 0.04

Acidity or Alkalinity (ml o.1 N NaOH/6 g) max. o.4 Heavy metals max. 5 ppm



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Particle size distribution $\% < 45 \,\mu\text{m}$ min. 90 (Air jet sieve) $\% < 63 \,\mu\text{m}$ min. 98

% <150 μm 100

Total aerobic microbial count max. 100 cfu/g
Yeasts and moulds max. 10 cfu/g
E. coli neg. in 10 g
Salmonella neg. in 100 g

Storage:

Keep in original, unopened packing and away from strongly odorous materials Temperature averaging between 5 and 25 °C, relative humidity of max. 70%

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

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