

Product: D-Lactose

CERTIFICATE OF ANALYSIS

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1. Identification

Catalogue Number: L113995 CAS Number: 63-42-3

Synonym: β -D-galactopyranosyl- $(1\rightarrow 4)$ -D-glucose;

Lactose; (+)-Lactose; AHL; Aletobiose; D-(+)-Lactose; DCL 15; DCl 11; Dilactose; Fast-Flo Lactose; Fast-flo; Flowlac 100; Galactinum; Granulac 140; Granulac 140M; Granulac 70; Inhalac 70; Lactin; Lactin (carbohydrate); Lactobiose; Lactohale 100; Lactohale 200; Lactohale 300; Lactose Edible 90; Lactose

Fast-flo; Lactose Anhydride; Lactose

Anhydrous; Milk Sugar; Nonpareil 107; Osmolactan; Pharmatosa DCL 21; Pharmatose 21; Pharmatose 325M; Pharmatose DCL 15;

Pr

Structure: OH OH Molecular Formula:

C12H22O11

Molecular weight:

342.3

Source of Product:

N/A

Solubility:

Aqueous Acid (Sparingly), Methanol (Very Slightly),

Water (Slightly)

Lot Purity: 97% Number: 21-ZEA-188-1

Shipping This Product Is Stable To Be Condition: Shipped At Room Temperature Storage Condition: 20°C

2. Warning

Warning 1: Warning 2: Warning 3:

3. Analytical Information

Tests: Specifications: Results:

Elemental Analysis Conforms %C: 39.71, %H: 6.18

AppearanceWhite to Off-White SolidWhite SolidNMRConforms to StructureConformsMSConforms to StructureConforms

Specific Rotation Report Result +52.7° (c = 1.0, Water; 24 Hours)

HPLC Purity Report Result 99.89% (ELSD)

Additional Information: N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of \pm 2%. Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

4. Signatures

Reviewed By

Nicole Yip

Toni Rantanen

C of A Approved By

Chanell Chu

9/24/2021

9/22/2025