



## CERTIFICATE OF ANALYSIS

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### 1. Identification

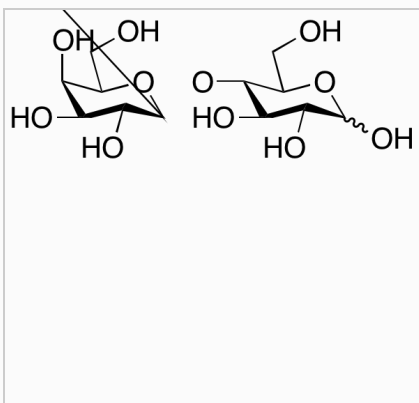
**Catalogue Number:** L113995

**CAS Number:** 63-42-3

**Synonym:**  $\beta$ -D-galactopyranosyl-(1 $\rightarrow$ 4)-D-glucose; Lactose; (+)-Lactose; AHL; Aletobiose; D-(+)-Lactose; DCL 15; DCI 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

**Product:** D-Lactose

**Structure:**



**Molecular Formula:**

$C_{12}H_{22}O_{11}$

**Molecular weight:**

342.3

**Source of Product:**

N/A

**Solubility:**

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

**Lot Number:** 2023-SAP-096

**Purity:** 98%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** 20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
Elemental Analysis	Conforms	%C: 41.70, %H: 6.49
HPLC Purity	Report Result	100.00% (ELSD)
MS	Conforms to Structure	Conforms
Specific Rotation	Report Result	+63.8° (c = 0.5, Water; 24 Hours)

**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	Reviewed By	C of A Approved By	Test Date	Retest Date
Nicole Yip	Toni Rantanen	Chanell Chu	4/18/2023	4/16/2027
				