

Certificate of Analysis

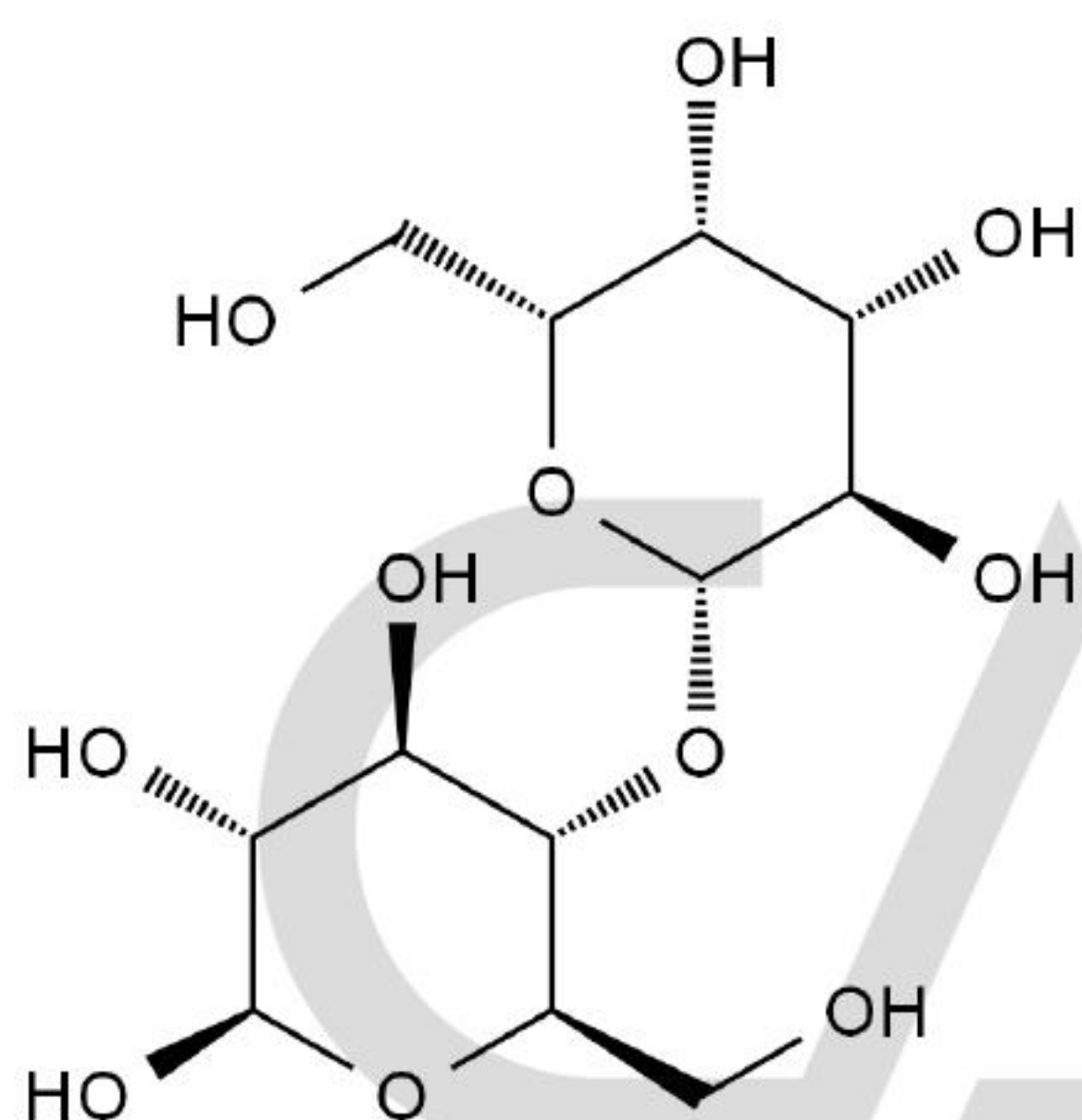
Reference Material & Standard

Product Name:	Lactose	Catalogue Number:	CCFD200366
Synonyms:	N/A	Lot Number:	0605-RE-0011
CAS Number:	63-42-3	Expiry Date:	Jun 04, 2027
Molecular Formula:	C ₁₂ H ₂₂ O ₁₁	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	342.30	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	ELSD	100.000%
Residue on Ignition	TGA	0.2303%
Loss on Drying	TGA	0.0641%
Assay		99.7%
Uncertainty		±0.2%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

$\text{Assay (\%)} = (100\% - \text{Residue on Ignition} - \text{Loss on Drying}) * \text{Purity ELSD (\%)} / 100\%$

Residue on Ignition and Loss on Drying are considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Apr 09, 2026

Date: Apr 09, 2026

Date: Apr 09, 2026

