CERTIFICATE OF ANALYSIS

(Certificate No. KML029001-01)

Release Date: 26/05/2026 **Re-test Date:** 25/05/2029

Lactose

Identification

Chemical Name :
4-O-β-D-galactopyranosyl-D-glucopyranose

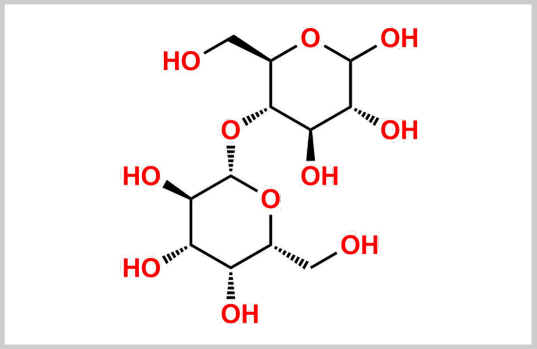
Alt. Name : Lactose ; D-(+)-Lactose

CAT No. : KML029001

CAS No. : 63-42-3

Molecular Formula : C12H22O11

Molecular Weight : 342.3



Analytical Information

Batch No. : L029001-114-325

Description : White Solid

HPLC Purity : 99.89 %

Weight Loss By TGA : 0.08 %

% Potency : 99.81 %

Solubility : Water

Mass : Confirm as Na adduct

IR : Confirm

1H NMR : Confirm

13C NMR : Confirm

Additional Information

Long Term Storage : Store at 2-8 deg. C for long term storage

Shipping Condition : Product is stable to be Shipped at Room Temperature

% Potency = [100 - 0.08(Weight Loss By TGA)] x [99.89(HPLC Purity)]/100 = 99.81 %

Recommendation : Released

	Department	Name	Signature	Date
Prepared By	Analytical	Jignesh Patel		26/05/2026
Reviewed & Approved By	Quality Control	Jatin Patel		26/05/2026

Attachments : COA, HPLC, MASS, 1HNMR, 13CNMR, IR and TGA