# CERTIFICATE OF ANALYSIS

(Certificate No. KML029007-01)

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

## Lactose Monohydrate

## Identification

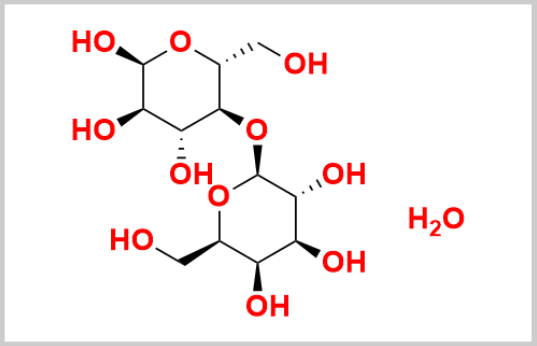
**Chemical Name** :
(2S,3R,4R,5S,6R)-6-(hydroxymethyl)-5-(((2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)tetrahydro-2H-pyran-2,3,4-triol hydrate

**CAT No.** : KML029007

**CAS No.** : 64044-51-5

**Molecular Formula** : C12H22O11 : H2O

**Molecular Weight** : 342.3 : 18.0




## Analytical Information

**Batch No.** : L029007-114-327

**Description** : White Solid

**HPLC Purity** : 99.86 %

**Weight Loss By TGA** : 0.14 %

**% Potency** : 99.72 %

**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 - 0.14(Weight Loss By TGA)] x [99.86(HPLC Purity)]/100 = 99.72 %

**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