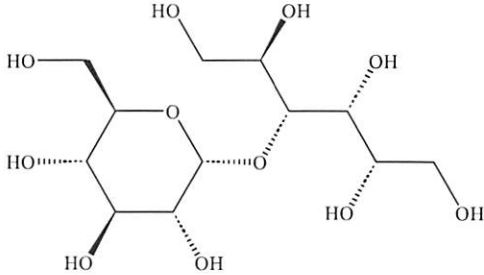


## Certificate of Analysis


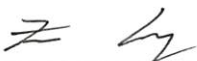
Certificate No.: **20250721001**

Date: July 21, 2025

Retest date: July 8, 2028

<b>Compound Name:</b>	<b>Maltitol</b>	
<b>Synonyms:</b>	(2S,3R,4R,5R)-4-(((2R,3R,4S,5S,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)hexane-1,2,3,5,6-pentaol	
<b>TLC Catalogue Number:</b>	M-183001	
<b>CAS Number:</b>	585-88-6	
<b>Alternate CAS Number:</b>	2170310-14-0 (Monohydrate)	
<b>Molecular Weight:</b>	344.31	
<b>Molecular Formula:</b>	C <sub>12</sub> H <sub>24</sub> O <sub>11</sub>	
<b>Source:</b>	TLC Pharmaceutical Standards	
<b>Source Lot No.:</b>	6823-048A1	
<b>Storage Conditions:</b>	Store at 2-8 °C	
<b>Solubility:</b>	DMSO, Water	

Test Description	Specifications	Results
<b>Visual Description</b>	White to off-white solid	<b>Conforms</b>
<b>Identification</b>		
IR	Conforms to structure	<b>Conforms</b>
MS	Conforms to structure	<b>Conforms</b>
<sup>1</sup> H NMR	Conforms to structure	<b>Conforms</b>
<b>Purity (HPLC)</b>	Not less than 95.0%	<b>99.9%</b>
<b>Impurity (HPLC)</b>	N/A	
<b>Water Content (KF)</b>	N/A	<b>0.2%</b>
<b>Residue (TGA at 900 °C)</b>	N/A	<b>0.0%</b>
<b>Optical Rotation</b>	[α] <sub>D</sub> <sup>25.0</sup> (c=0.90, H <sub>2</sub> O): +104.2°	[α] <sub>D</sub> <sup>25.0</sup> (c=0.93, H <sub>2</sub> O): <b>+106.5°</b>
<b>Residual Solvents (NMR)</b>	0.1% ethanol	
<b>Assay (%)</b>	Not less than 90.0%	<b>99.6%</b>
<b>Recommendation:</b>	<b>Release.</b>	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		07/21/2025
Approved by:	Quality Assurance		07/21/2025

**Attachments:** Peak Attribution Table, HPLC, IR, MS, NMR and TGA spectra.