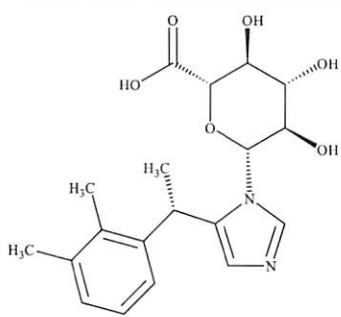


Certificate of Analysis



Certificate No.: **20260128508-2**

Date: January 28, 2026

Retest date: January 13, 2029

Compound Name:	Dexmedetomidine N¹-Glucuronide	
Synonyms:	1-deoxy-1-[5-[(1S)-1-(2,3-dimethylphenyl)ethyl]-1H-imidazol-1-yl]-β-D-glucopyranuronic acid	
TLC Catalogue Number:	D-291014	
CAS Number:	1061620-86-7	
Alternate CAS Number:	N/A	
Molecular Weight:	376.41	
Molecular Formula:	C ₁₉ H ₂₄ N ₂ O ₆	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	C0253-077A25	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Methanol, DMSO	

Test Description	Specifications	Results
Visual Description	White to off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	98.1%
Impurity (HPLC)	RT 5.93, 0.63%; RT 8.27, 1.08%; RT 9.06, 0.18%	
Residual Solvents (NMR)	1.5% methanol	
Assay (qNMR)	Not less than 80.0%	94.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		03/16/2026
Approved by:	Quality Assurance		03/16/2026

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.