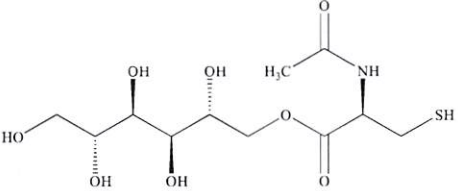


Certificate of Analysis


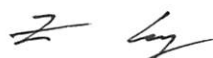
Certificate No.: 20260128511

Date: January 28, 2026

Retest date: January 21, 2029

Compound Name:	Acetylcysteine Mannitol Adduct	
Synonyms:	(2R,3R,4R,5R)-2,3,4,5,6-pentahydroxyhexyl (R)-2-acetylamino-3-mercaptopropionate	
TLC Catalogue Number:	A-336043	
CAS Number:	N/A	
Alternate CAS Number:	N/A	
Molecular Weight:	327.35	
Molecular Formula:	C ₁₁ H ₂₁ NO ₈ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	C0262-041A5	
Storage Conditions:	Protect from air, hygroscopic, 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%	99.9%
Impurity (HPLC)	N/A	
Residual Solvents (NMR)	3.2% methanol	
Assay (qNMR)	Not less than 85.0%	95.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/28/2026
Approved by:	Quality Assurance		01/28/2026

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