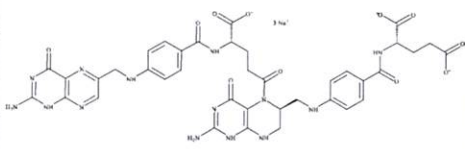


Certificate of Analysis



Certificate No.: 20260617006

Date: June 17, 2026

Retest date: June 17, 2029

Compound Name:	Folic Acid Impurity 16 Trisodium Salt	
Synonyms:	(4-(((S)-2-amino-5-((S)-4-(4-(((2-amino-4-oxo-1,4-dihydropteridin-6-yl)methyl)amino)benzamido)-4-carboxylatobutanoyl)-4-oxo-1,4,5,6,7,8-hexahydropteridin-6-yl)methyl)amino)benzoyl)-L-glutamate, sodium salt (1:3)	
TLC Catalogue Number:	F-2461	
CAS Number:	N/A	
Alternate CAS Number:	N/A	
Molecular Weight:	865.80 3*22.99	
Molecular Formula:	C ₃₈ H ₃₇ N ₁₄ O ₁₁ . 3 Na	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7485-025A4	
Storage Conditions:	Store at 2-8 °C	
Solubility:	Water	

Test Description	Specifications	Results
Visual Description	Yellow 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%	97.4%
Impurity (HPLC)	RT 3.23, 0.26%; RT 4.56, 1.37%; RT 10.98, 0.43%	
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.52, H ₂ O): +15.0°
Residual Solvents (NMR)	No residual solvent	
Assay (qNMR)	Not less than 75.0%	78.7%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/17/2026
Approved by:	Quality Assurance		06/17/2026

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