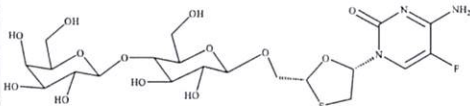


Certificate of Analysis



Certificate No.: 20260604501

Date: June 4, 2026

Retest date: May 27, 2029

Compound Name:	Emtricitabine Impurity 51	
Synonyms:	4-amino-1-[(2R,5S)-2-[[[(2R,3R,4R,5S,6R)-3,4-dihydroxy-6-(hydroxymethyl)-5-[(2S,3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yloxy]tetrahydro-2H-pyran-2-yloxy]methyl]-1,3-oxathiolan-5-yl]-5-fluoro-2(1H)-pyrimidinone	
TLC Catalogue Number:	E-5873	
CAS Number:	N/A	
Alternate CAS Number:	N/A	
Molecular Weight:	571.53	
Molecular Formula:	C ₂₀ H ₃₀ FN ₃ O ₁₃ S	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	C0286-022A12	
Storage Conditions:	Store at 2-8 °C	
Solubility:	DMSO, Water	

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%	99.7%
Impurity (HPLC)	N/A	
Water Content (KF)	N/A	4.8%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	94.9%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/04/2026
Approved by:	Quality Assurance		06/04/2026

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