

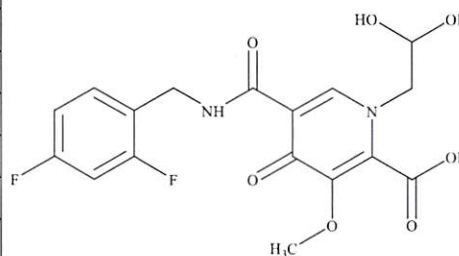
Certificate of Analysis

 Certificate No.: **20260623005**


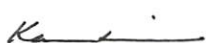
Date: June 23, 2026

Retest date: June 15, 2029

Compound Name: Dolutegravir Impurity 38	
Synonyms:	5-((2,4-difluorobenzyl)carbamoyl)-1-(2,2-dihydroxyethyl)-3-methoxy-4-oxo-1,4-dihydropyridine-2-carboxylic acid
TLC Catalogue Number:	D-093047
CAS Number:	2940947-95-3
Alternate CAS Number:	2384108-26-1 (aldehyde form)
Molecular Weight:	398.32
Molecular Formula:	C ₁₇ H ₁₆ F ₂ N ₂ O ₇
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7444-076A4
Storage Conditions:	Hygroscopic, 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%	99.6%
Impurity (HPLC)	RT 18.49, 0.13%; RT 19.91, 0.13%	
Water Content (KF)	N/A	5.2%
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	94.4%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/23/2026
Approved by:	Quality Assurance		06/23/2026

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