

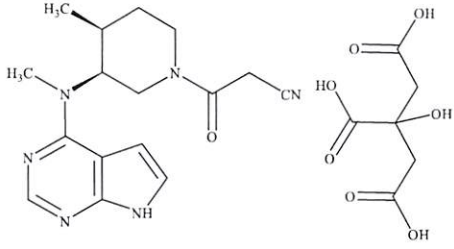
Certificate of Analysis

Certificate No.: **20260209506**



Date: February 9, 2026

Retest date: February 4, 2029

Compound Name: Tofacitinib Impurity 62 Citrate	
Synonyms:	3-((3S,4S)-4-methyl-3-(methyl(7H-pyrrolo[2,3-d]pyrimidin-4-yl)amino)piperidin-1-yl)-3-oxopropanenitrile, citrate (1:1)
TLC Catalogue Number:	T-117005
CAS Number:	2174011-55-1
Alternate CAS Number:	2578-47-6 (free base)
Molecular Weight:	312.38 192.12
Molecular Formula:	C ₁₆ H ₂₀ N ₆ O. C ₆ H ₈ O ₇
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4692-005A7
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, DMF, 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%	99.9%
Impurity (HPLC)	N/A	
Purity (Chiral HPLC)	Not less than 98.0%	100.0%
Water Content (KF)	N/A	0.1%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.30, H ₂ O): -35.4°
Residual Solvents (NMR)	0.1% ethanol and 0.4% acetone	
Assay (%)	Not less than 90.0%	99.3%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		02/09/2026
Approved by:	Quality Assurance		02/09/2026

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