

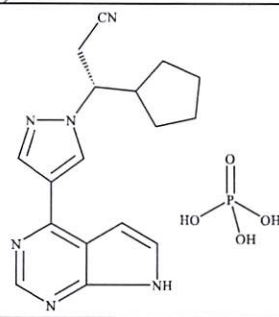
Certificate of Analysis

Certificate No.: **20241121018**

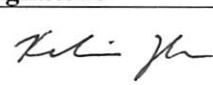

Date: November 21, 2024

Retest date: November 8, 2026

Compound Name: Ruxolitinib Phosphate	
Synonyms:	(R)-3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-cyclopentylpropanenitrile, phosphate (1:1)
TLC Catalogue Number:	R-093001
CAS Number:	1092939-17-7
Molecular Weight:	306.37 97.99
Molecular Formula:	C ₁₇ H ₁₈ N ₆ . H ₃ O ₄ P
Source:	TLC Pharmaceutical Standards
Source Lot No.:	4742-032A1
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Ethanol



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
Elemental Analysis	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%	99.6%
Water Content (KF)	N/A	0.3%
Optical Rotation	N/A	$[\alpha]_D^{20.0}$ (c=0.50, CH ₃ OH): -5.2°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	99.2%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		11/22/2024
Approved by:	Quality Assurance		11/22/2024

Attachments: HPLC, IR, MS and NMR spectra.