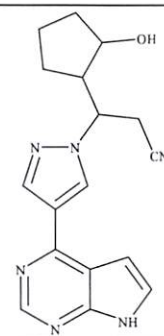


Certificate of Analysis

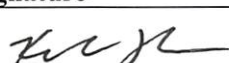

Certificate No.: 20251031503

Date: October 31, 2025

Retest date: October 29, 2028

| | | |
|------------------------------|--|---|
| Compound Name: | Ruxolitinib Impurity 7 (Mixture of Diastereomers) | |
| Synonyms: | 3-(4-(7H-pyrrolo[2,3-d]pyrimidin-4-yl)-1H-pyrazol-1-yl)-3-(2-hydroxycyclopentyl)propanenitrile | |
| TLC Catalogue Number: | R-093011 |  |
| CAS Number: | 1092973-95-9 | |
| Alternate CAS Number: | N/A | |
| Molecular Weight: | 322.37 | |
| Molecular Formula: | C ₁₇ H ₁₈ N ₆ O | |
| Source: | TLC Pharmaceutical Standards | |
| Source Lot No.: | 5334-061A3 | |
| Storage Conditions: | Store at 2-8 °C | |
| Solubility: | Methanol, DMSO, Acetonitrile | |

| 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% | 98.9% |
| Impurity (HPLC) | RT 12.92, 0.35%; RT 13.83, 0.16%; RT 25.55, 0.15% | |
| Residual Solvents (NMR) | 1.6% methanol and 0.1% dichloromethane | |
| Assay (qNMR) | Not less than 90.0% | 94.4% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 10/31/2025 |
| Approved by: | Quality Assurance |  | 10/31/2025 |

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