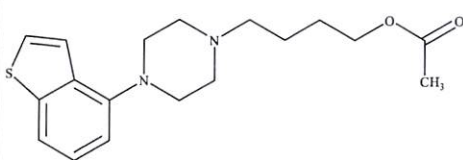


Certificate of Analysis



Certificate No.: 20260602009

Date: June 2, 2026

Retest date: May 28, 2029

| | | | |
|------------------------------|---|--|--|
| Compound Name: | Brexpiprazole Impurity 91 | | |
| Synonyms: | 4-(4-(benzo[<i>b</i>]thiophen-4-yl)piperazin-1-yl)butyl acetate | | |
| TLC Catalogue Number: | B-115102 |  | |
| CAS Number: | 913614-14-9 | | |
| Alternate CAS Number: | N/A | | |
| Molecular Weight: | 332.46 | | |
| Molecular Formula: | C ₁₈ H ₂₄ N ₂ O ₂ S | | |
| Source: | TLC Pharmaceutical Standards | | |
| Source Lot No.: | 7326-099A5 | | |
| Storage Conditions: | Store at 2-8 °C | | |
| Solubility: | Methanol, DMSO, Acetonitrile | | |

| Test Description | Specifications | Results |
|---|---|---|
| Visual Description | Off-white solid | Conforms |
| Identification IR MS ¹ H NMR | Conforms to structure Conforms to structure Conforms to structure | Conforms Conforms Conforms |
| Purity (HPLC) | Not less than 95.0% | 99.2% |
| Impurity (HPLC) | RT 5.11, 0.32%; RT 16.96, 0.38% | |
| Water Content (KF) | N/A | 0.2% |
| Residual Solvents (NMR) | No residual solvent | |
| Assay (%) | Not less than 90.0% | 99.0% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 06/02/2026 |
| Approved by: | Quality Assurance |  | 06/02/2026 |

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