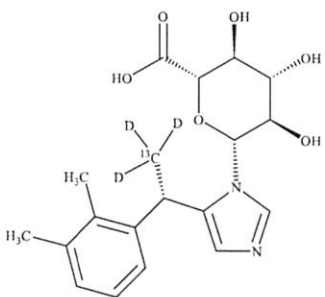


Certificate of Analysis



Certificate No.: 20260206506-2

Date: February 6, 2026

Retest date: January 30, 2029

| | | |
|------------------------------|--|---|
| Compound Name: | Dexmedetomidine N¹-Glucuronide-¹³C-d₃ | |
| Synonyms: | 1-deoxy-1-[5-[(1S)-1-(2,3-dimethylphenyl)(ethyl-2,2,2- ¹³ C-d ₃)]-1H-imidazol-1-yl]-β-D-glucopyranuronic acid | |
| TLC Catalogue Number: | D-291016 |  |
| CAS Number: | N/A | |
| Alternate CAS Number: | 1061620-86-7 (non-labelled) | |
| Molecular Weight: | 380.42 | |
| Molecular Formula: | C ₁₈ ¹³ CH ₂₁ D ₃ N ₂ O ₆ | |
| Source: | TLC Pharmaceutical Standards | |
| Source Lot No.: | C0253-100A13 | |
| Storage Conditions: | Store at 2-8 °C | |
| Solubility: | Methanol, DMSO | |

| 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% | 97.7% |
| Impurity (HPLC) | RT 6.24, 0.78%; RT 8.61, 1.17%; RT 9.27, 0.31% | |
| Isotopic Enrichment | Not less than 98.0% | 99.0% D; 99.0% ¹³C |
| Residual Solvents (NMR) | 1.0% methanol and 0.2% dichloromethane | |
| Assay (qNMR) | Not less than 90.0% | 94.9% |
| Recommendation: | Release. | |

| Name | Department | Signature | Date |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control |  | 03/16/2026 |
| Approved by: | Quality Assurance |  | 03/16/2026 |

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