

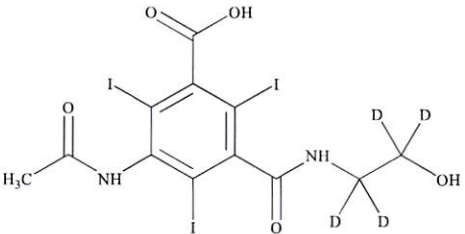
## Certificate of Analysis

Certificate No.: **20260604002**

Date: June 4, 2026


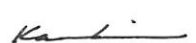
Retest date: May 29, 2029

|   |   |
|---|---|
| <b>Compound Name:</b> Ioxitalamic Acid-d <sub>4</sub> |   |
| <b>Synonyms:</b>                                      | 3-acetamido-5-((2-hydroxyethyl-1,1,2,2-d <sub>4</sub> )carbamoyl)-2,4,6-triiodobenzoic acid |
| <b>TLC Catalogue Number:</b>                          | I-382   |
| <b>CAS Number:</b>                                    | 1185156-82-4  |
| <b>Alternate CAS Number:</b>                          | 28179-44-4 (non-labelled)   |
| <b>Molecular Weight:</b>                              | 647.97  |
| <b>Molecular Formula:</b>                             | C <sub>12</sub> H <sub>7</sub> D <sub>4</sub> I <sub>3</sub> N <sub>2</sub> O <sub>5</sub>  |
| <b>Source:</b>  | TLC Pharmaceutical Standards  |
| <b>Source Lot No.:</b>                                | 7399-062A6  |
| <b>Storage Conditions:</b>                            | Store at 2-8 °C   |
| <b>Solubility:</b>                                    | Solution of Methanol and Water, DMSO  |



The chemical structure shows a central benzene ring with three iodine atoms at positions 2, 4, and 6. At position 3, there is an acetamido group (-NH-C(=O)-CH<sub>3</sub>). At position 5, there is a carbamoyl group (-NH-C(=O)-) attached to a 2-hydroxyethyl chain where the ethyl carbons are fully deuterated (D<sub>4</sub>).

| Test Description               | Specifications                                   | Results         |
|--------------------------------|--|-----------------|
| <b>Visual Description</b>      | White to off-white solid                         | <b>Conforms</b> |
| <b>Identification</b>          |  |                 |
| IR                             | Conforms to structure                            | <b>Conforms</b> |
| MS                             | Conforms to structure                            | <b>Conforms</b> |
| <sup>1</sup> H NMR             | Conforms to structure                            | <b>Conforms</b> |
| <b>Purity (HPLC)</b>           | Not less than 95.0%                              | <b>98.4%</b>    |
| <b>Impurity (HPLC)</b>         | RT 7.03, 0.33%; RT 19.39, 0.68%; RT 19.69, 0.29% |                 |
| <b>Isotopic Enrichment</b>     | Not less than 95.0%                              | <b>97.5%</b>    |
| <b>Water Content (KF)</b>      | N/A  | <b>0.8%</b>     |
| <b>Residual Solvents (NMR)</b> | 1.5% acetonitrile                                |                 |
| <b>Assay (%)</b>               | Not less than 90.0%                              | <b>96.1%</b>    |
| <b>Recommendation:</b>         | <b>Release.</b>                                  |                 |

| Name                      | Department        | Signature  | Date       |
|---------------------------|-------------------|--|------------|
| Reviewed and approved by: | Quality Control   |  | 06/05/2026 |
| Approved by:              | Quality Assurance |  | 06/05/2026 |

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