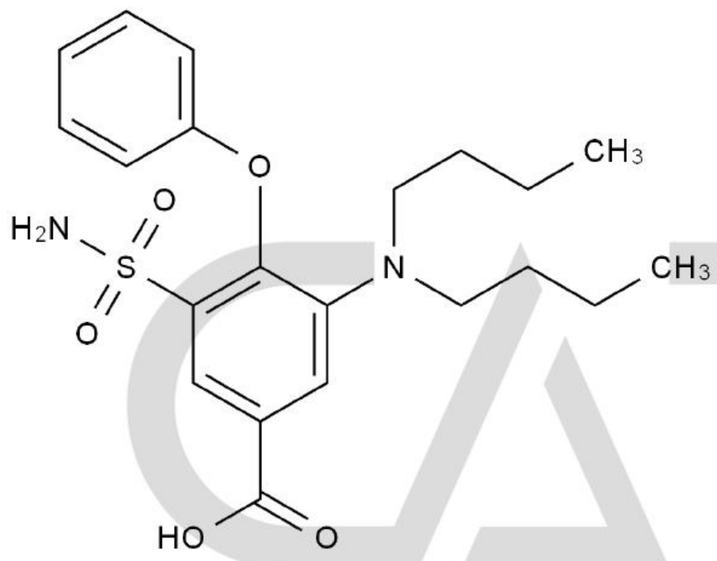
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Bumetanide Impurity N3 | **Catalogue Number:** | CP108648 |
| **Synonyms:** | N/A | **Lot Number:** | 0915-RH-0060 |
| **CAS Number:** | 1236290-34-8 | **Expiry Date:** | Sep 14, 2030 |
| **Molecular Formula:** | $C_{21}H_{28}N_2O_5S$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 420.52 | **Shipping Condition:** | Shipping at Room Temperature |
| | | **Warning:** |  |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | White Solid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 98.0% |
| **Assay** | qNMR | 97.2% |

CATO Research Chemicals Inc.

**Signature:**

Prepared by: Koji Date: Sep 16, 2026

Reviewed by: Lisa Date: Sep 17, 2026

Approved by General Manager: David Date: Sep 17, 2026

CATO Research Chemicals Inc.