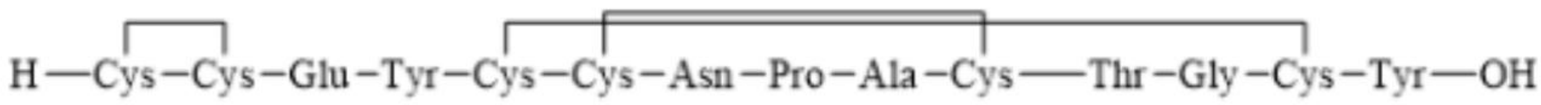
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Linaclotide Impurity 21 | **Catalogue Number:** | C4X-210621 |
| **Synonyms:** | N/A | **Lot Number:** | 0903-RH-0067 |
| **CAS Number:** | N/A | **Expiry Date:** | Jan 12, 2027 |
| **Molecular Formula:** | $C_{59}H_{79}N_{15}O_{21}S_6$ | **Storage:** | -20°C±5°C Protected from light and Sealed |
| **Molecular Weight:** | 1526.73 | **Shipping Condition:** | Shipping with Dry Ice |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | White Solid |
| **Identification** | HRMS&AAS&DBL | Confirmed |
| **Purity** | HPLC | 95.828% |
| **Water Content** | Karl Fischer | 5.05% |
| **Residual Solvents** | NMR | 1.12% ammonium and 7.71% acetic acid |
| **Assay** | | 82.5% |

CATO Research Chemicals Inc.

## Comment:

*The calculation of the mass balance method follows the formula (calculated on the non-dried basis):*
*Assay (%) = (100%-Water Content-Residual Solvents) * Purity HPLC (%) /100%*
*Water Content and Residual Solvents are considered as absolute effect, HPLC purity is considered as relative effect.*

**Signature:**

Prepared by: Reviewed by: Approved by General Manager:

Date: Sep 06, 2026 Date: Sep 07, 2026 Date: Sep 07, 2026

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