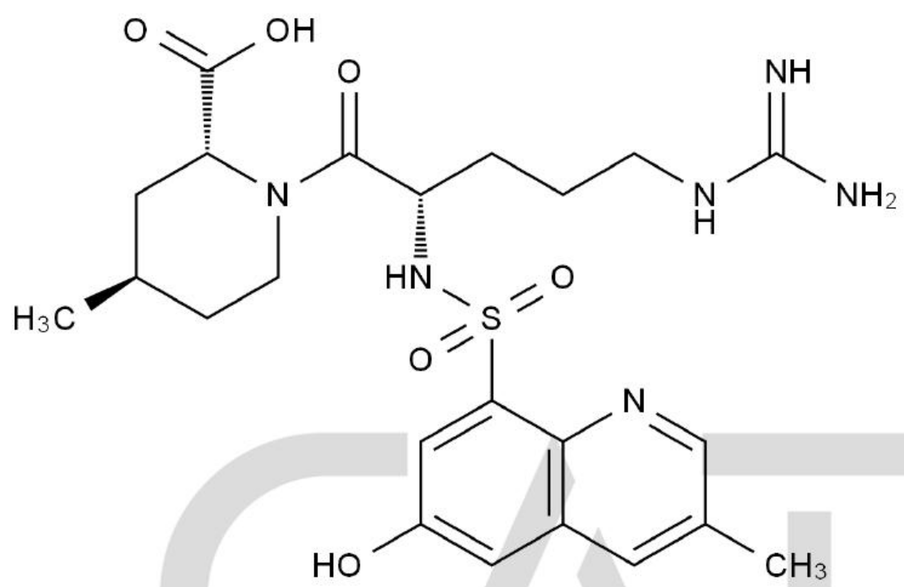
# Certificate of Analysis

## Reference Material

| | | | |
|---|---|---|---|
| **Product Name:** | Argatroban Impurity 18 | **Catalogue Number:** | C4X-100718 |
| **Chemical Name:** | N/A | **Lot Number:** | 1209-RC-0006 |
| **CAS Number:** | N/A | **Expiry Date:** | Aug 26, 2025 |
| **Molecular Formula:** | C23H32N6O6S | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 520.60 | | |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | White to Off-White Solid |
| **Identification** | LCMS&IR&HNMR | Confirmed |
| **Purity** | HPLC | 97.1650% |
| **Water Content** | Karl Fischer | 3.9% |
| **Residual Solvents** | NMR | Not detected in NMR |
| **Optical Rotation** | | [α]D25.0(c=0.52,DMSO): +143.7° |
| **Assay** | | 93.4% |

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## Comment:

*The calculation of the 100% 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: Hinlam Date: Aug 26, 2022

Reviewed by: Xenia Date: Sep 27, 2022

Aporoved by General manager: David Date: Sep 27, 2022

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