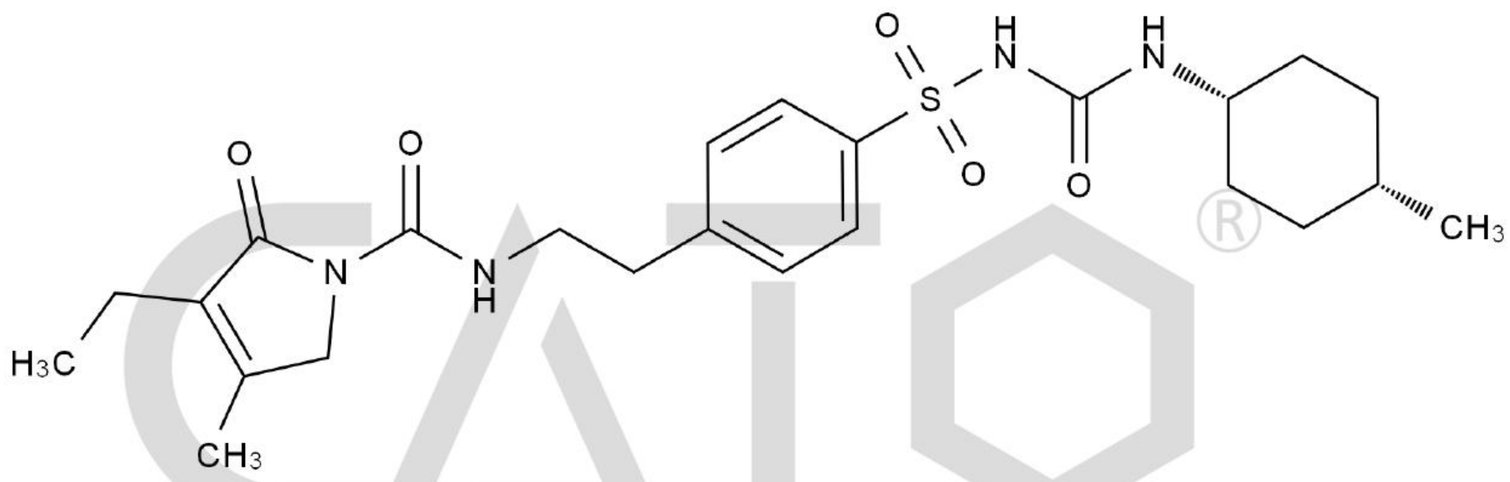
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Glimepiride EP Impurity A | **Catalogue Number:** | C4X-11021 |
| **Synonyms:** | N/A | **Lot Number:** | 0921-RH-0112 |
| **CAS Number:** | 684286-46-2 | **Expiry Date:** | Sep 20, 2030 |
| **Molecular Formula:** | $C_{24}H_{34}N_4O_5S$ | **Storage:** | -20°C±5°C Protected from light and Sealed |
| **Molecular Weight:** | 490.62 | **Shipping Condition:** | Shipping with Ice Packs |
| | | **Warning:** |  |

**Chemical Structure:**



| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | White Solid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 98.865% |
| **Loss on Drying** | TGA | 0.2180% |
| **Assay** | | 98.6% |

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## Comment:

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

**Signature:**

Prepared by: Koji Date: Sep 21, 2026

Reviewed by: Lisa Date: Sep 21, 2026

Approved by General Manager: David Date: Sep 21, 2026

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