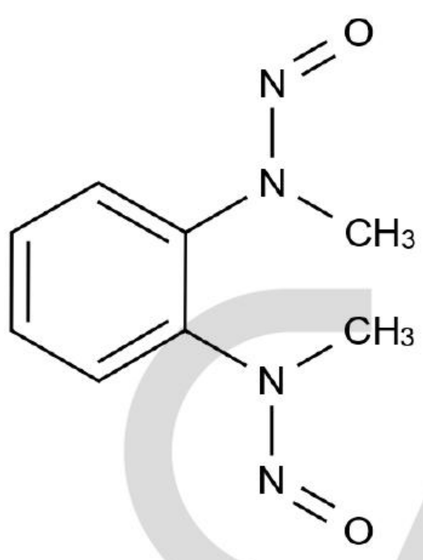
# Certificate of Analysis

## Reference Material & Standard

| | | | |
|---|---|---|---|
| **Product Name:** | Telmisartan Impurity 89 | **Catalogue Number:** | C4X-135989 |
| **Synonyms:** | N/A | **Lot Number:** | 0928-RH-0092 |
| **CAS Number:** | N/A | **Expiry Date:** | Oct 07, 2029 |
| **Molecular Formula:** | $C_8H_{10}N_4O_2$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 194.19 | **Shipping Condition:** | Shipping at Room Temperature |
| **Solubility:** | Acetonitrile | | |

**Chemical Structure:**



| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Yellow Liquid |
| **Identification** | LCMS&HNMR | Confirmed |
| **Purity** | HPLC | 99.906% |
| **Loss on Drying** | TGA | 0.1930% |
| **Assay** | Mass Balance | 99.7% |

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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: Alice Date: Oct 08, 2026

Reviewed by: Koi Date: Oct 08, 2026

Approved by General Manager: David Date: Oct 08, 2026

CATO Research Chemicals Inc.