# Certificate of Analysis

## Reference Material & Standard

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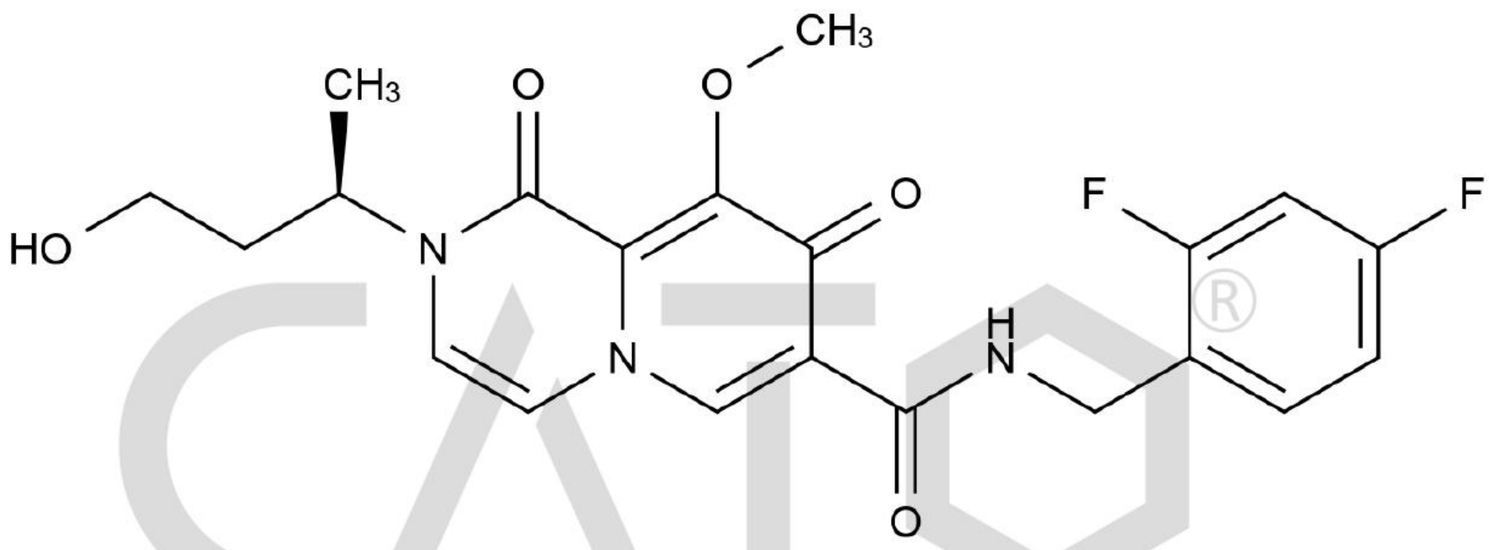
|---|---|---|---|
| **Product Name:** | Dolutegravir Impurity 34 | **Catalogue Number:** | C4X-162034 |
| **Synonyms:** | N/A | **Lot Number:** | 0922-RH-0127 |
| **CAS Number:** | 2227442-13-7 | **Expiry Date:** | Sep 28, 2030 |
| **Molecular Formula:** | $C_{21}H_{21}F_2N_3O_5$ | **Storage:** | 2°C ~ 8°C Protected from light and Sealed |
| **Molecular Weight:** | 433.41 | **Shipping Condition:** | Shipping at Room Temperature |
| **Solubility:** | Acetonitrile | | |

**Chemical Structure:**




| Test Items | Method | Results |
|---|---|---|
| **Appearance** | Visual inspection | Light Yellow Solid |
| **Identification** | LCMS&CNMR&HNMR | Confirmed |
| **Purity** | HPLC | 96.056% |
| **Loss on Drying** | TGA | 1.3534% |
| **Assay** | | 94.8% |

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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: Sep 29, 2026

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Approved by General Manager: David — Date: Sep 29, 2026

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