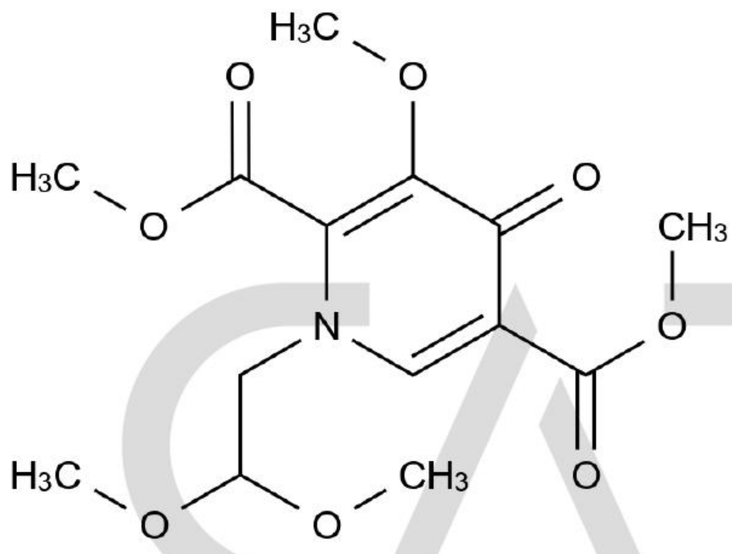
Certificate of Analysis

Reference Material & Standard

Product Name:	Dolutegravir Impurity 13	**Catalogue Number:**	C4X-162013
Synonyms:	N/A	**Lot Number:**	0119-RH-0079
CAS Number:	1646862-02-3	**Expiry Date:**	Jan 14, 2030
Molecular Formula:	$C_{14}H_{19}NO_8$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	329.30	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Brown Sticky Liquid
Identification	LCMS&UV&CNMR&HNMR	Confirmed
Purity	HPLC	99.894%
Water Content	Karl Fischer	2.44%
Residual Solvents	NMR	0.11% acetonitrile
Assay	Mass Balance	97.3%

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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: Koji Date: Oct 08, 2026

Reviewed by: Lisa Date: Oct 08, 2026

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

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