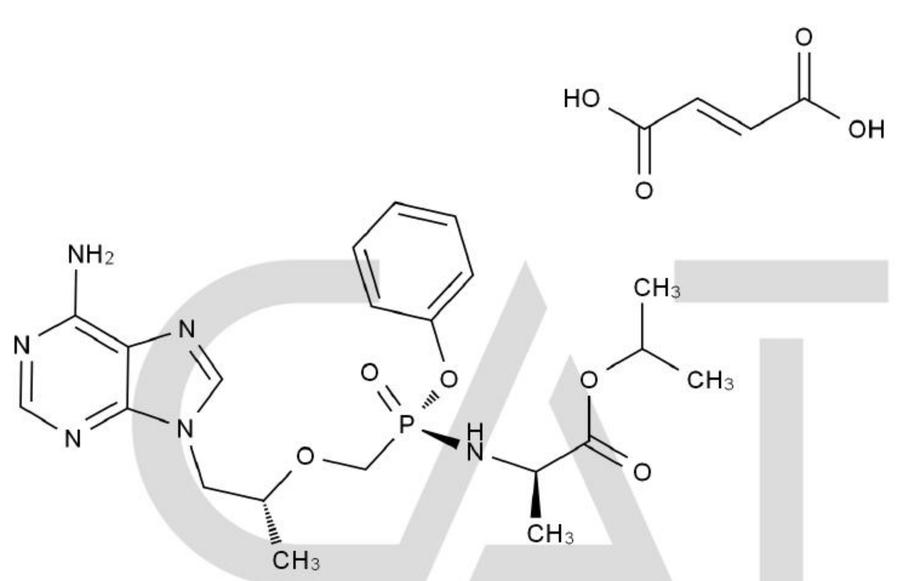
Certificate of Analysis

Reference Material & Standard

Product Name:	Tenofovir Alafenamide Impurity 5	**Catalogue Number:**	C4X-17975
Synonyms:	N/A	**Lot Number:**	0911-RH-0054
CAS Number:	2055343-42-3	**Expiry Date:**	Apr 23, 2030
Molecular Formula:	$C_{21}H_{29}N_6O_5P$ $C_4H_4O_4$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	476.47 116.07	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&UV&HNMR	Confirmed
Purity	HPLC	99.496%
Water Content	Karl Fischer	0.80%
Residual Solvents	NMR	Not detected in NMR
Assay		98.7%

CATO Research Chemicals Inc.

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: Date: Sep 11, 2026

Reviewed by: Date: Sep 11, 2026

Approved by General Manager: Date: Sep 11, 2026

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ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-2832

ISO 9001:2000 SYSTEM CERTIFICATION SGS

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