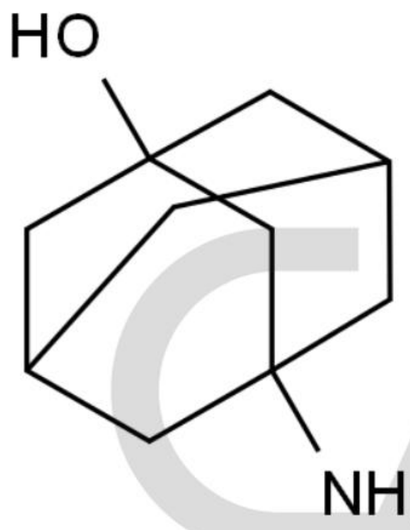
Certificate of Analysis

Reference Material & Standard

Product Name:	Vildagliptin Impurity 25	**Catalogue Number:**	C4X-110025
Synonyms:	N/A	**Lot Number:**	1012-RH-0074
CAS Number:	702-82-9	**Expiry Date:**	Oct 11, 2030
Molecular Formula:	$C_{10}H_{17}NO$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	167.25	**Shipping Condition:**	Shipping at Room Temperature
		Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&IR&UV&HNMR	Confirmed
Purity	GC	99.650%
Water Content	Karl Fischer	8.2371%
Assay	Mass Balance	91.4%

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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) * Purity GC (%) /100%*
Water Content is considered as absolute effect, GC purity is considered as relative effect.

Signature:

Prepared by: Koji Date: Oct 12, 2026

Reviewed by: Lisa Date: Oct 12, 2026

Approved by General Manager: David Date: Oct 12, 2026

CATO Research Chemicals Inc.