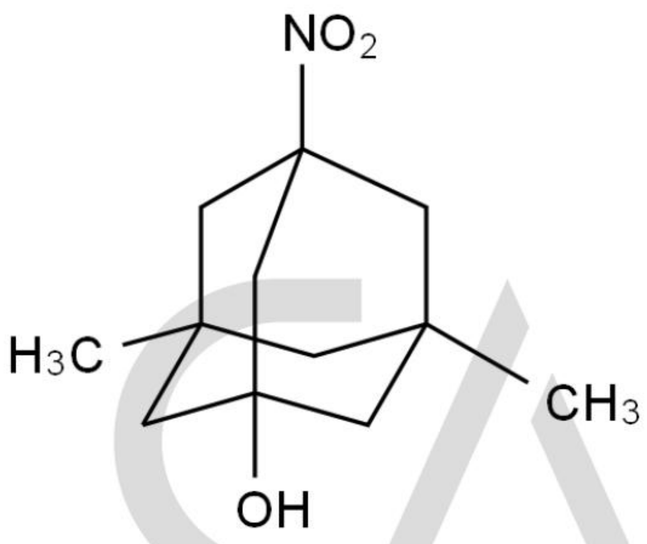
Certificate of Analysis

Reference Material & Standard

Product Name:	Memantine Impurity 21	**Catalogue Number:**	C4X-105821
Synonyms:	N/A	**Lot Number:**	0930-RH-0004
CAS Number:	2460757-92-8	**Expiry Date:**	Dec 08, 2028
Molecular Formula:	$C_{12}H_{19}NO_3$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	225.28	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&HNMR	Confirmed
Purity	HPLC	95.4393%
Loss on Drying	TGA	0.116%
Assay	Mass Balance	95.3%

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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: Date: Sep 30, 2026

Reviewed by: Date: Sep 30, 2026

Approved by General Manager: Date: Sep 30, 2026

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