CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

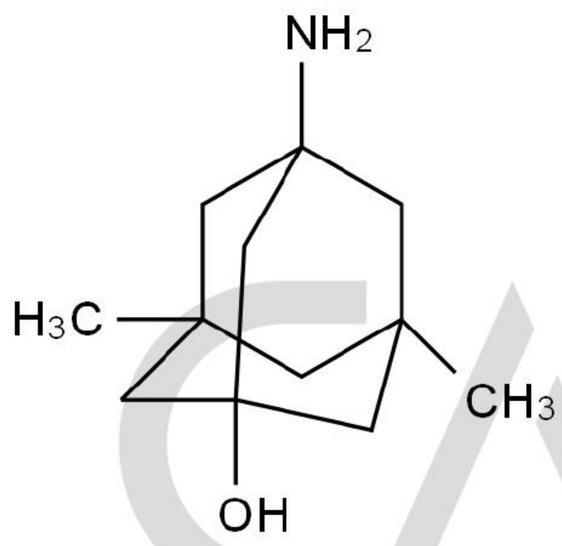
No.: 202511200098

Certificate of Analysis

Reference Material & Standard

Product Name:	Memantine Impurity 28	**Catalogue Number:**	C4X-105828
Synonyms:	N/A	**Lot Number:**	1019-RE-0071
CAS Number:	63971-25-5	**Expiry Date:**	Nov 25, 2029
Molecular Formula:	$C_{12}H_{21}NO$	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	195.30	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Pale Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	8.40%
Assay		91.6%

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

Signature:

Prepared by: Koi Date: Nov 26, 2025

Reviewed by: Lisa Date: Nov 27, 2025

Approved by General Manager: David Date: Nov 27, 2025

CATO Research Chemicals Inc.

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

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