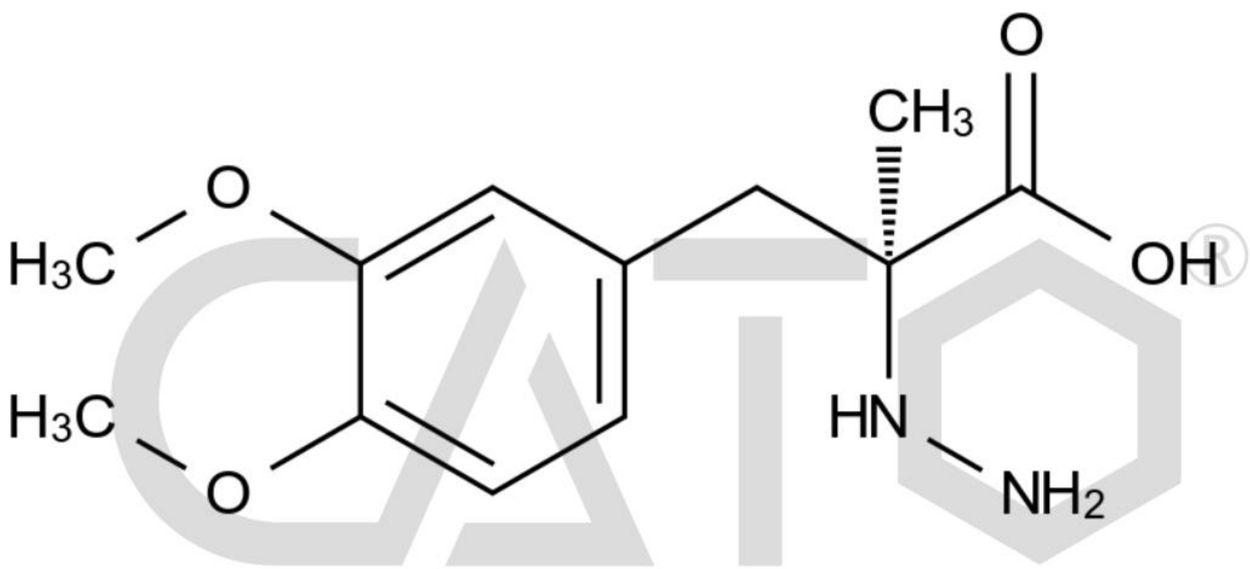
Certificate of Analysis

Reference Material & Standard

Product Name:	Carbidopa Impurity 31	**Catalogue Number:**	C4X-231031
Synonyms:	N/A	**Lot Number:**	1124-RH-0049
CAS Number:	28860-96-0	**Expiry Date:**	Jan 04, 2029
Molecular Formula:	$C_{12}H_{18}N_2O_4$	**Storage:**	-20°C±5°C Protected from light and Sealed
Molecular Weight:	254.28	**Shipping Condition:**	Shipping with Ice Packs

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.00%
Loss on Drying	TGA	4.365%
Assay	Mass Balance	95.6%

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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: Nov 26, 2026

Reviewed by: Date: Nov 26, 2026

Approved by General Manager: Date: Nov 26, 2026

CATO Research Chemicals Inc.