

Certificate of Analysis

Reference Material & Standard

Product Name:	Tramadol EP Impurity D (and Enantiomer)	Catalogue Number:	C4X-149816
Synonyms:	N/A	Lot Number:	0214-RG-0056
CAS Number:	80456-81-1	Expiry Date:	Jul 20, 2029
Molecular Formula:	C15H23NO2	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	249.35		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Off-White Solid
Identification	LCMS&HNMR	Confirmed
Purity	GC	99.6%
Assay	qNMR	98.6%

Signature:

Prepared by:

Koi

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 28, 2025

Date: Jul 28, 2025

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