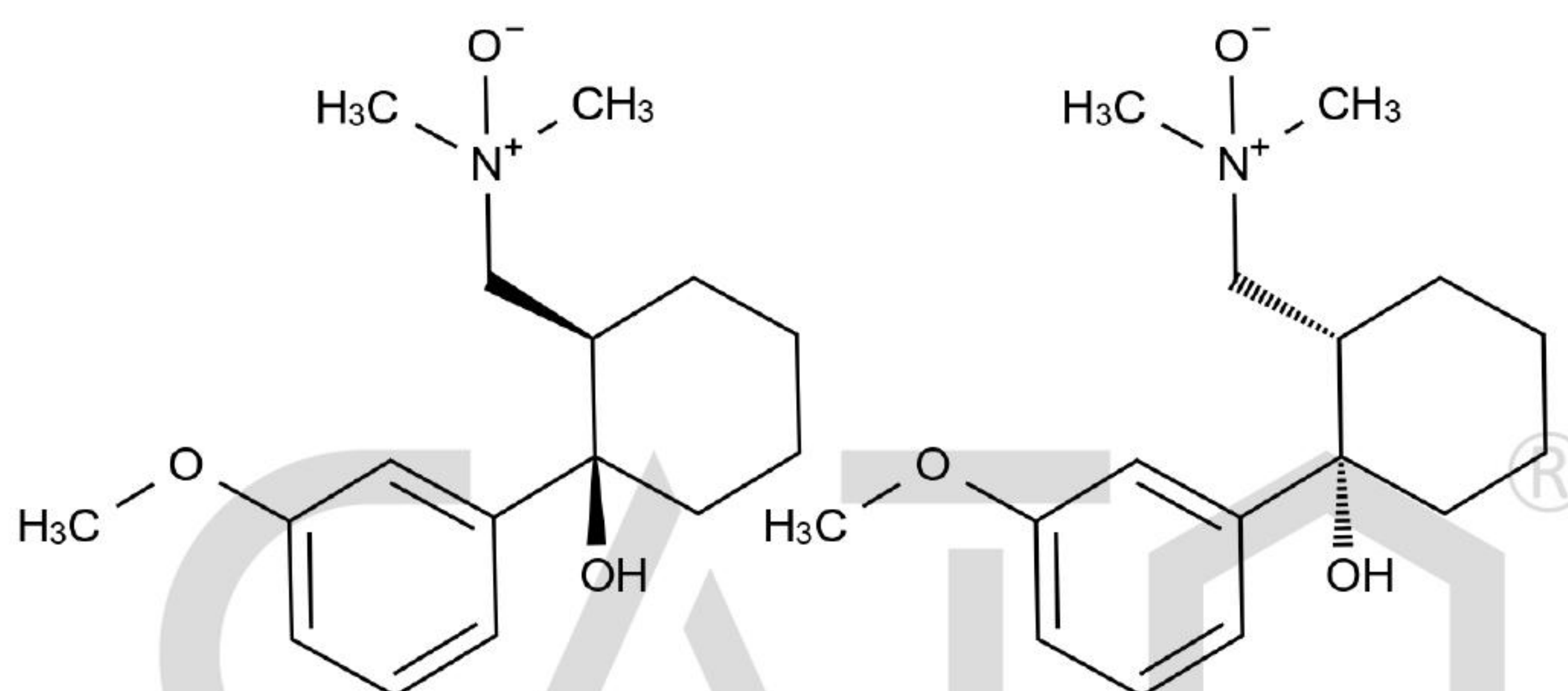


Certificate of Analysis

Reference Material & Standard

Product Name:	Tramadol N-Oxide	Catalogue Number:	C4X-14989
Synonyms:	N/A	Lot Number:	0516-RG-0008
CAS Number:	147441-56-3	Expiry Date:	Jan 02, 2027
Molecular Formula:	2*C16H25NO3	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	2*279.37		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.1683%
Residue on Ignition	TGA	0.690%
Loss On Drying	TGA	0.036%
Assay		96.5%

Comment:

The calculation of the 100% method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Residue on Ignition - Loss On Drying) * Purity HPLC (%) / 100%

Residue on Ignition and Loss On Drying are considered as absolute effect, HPLC purity is considered as relative effect.

Signature:

Prepared by:

Lily

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: May 16, 2025

Date: May 16, 2025

Date: May 16, 2025

