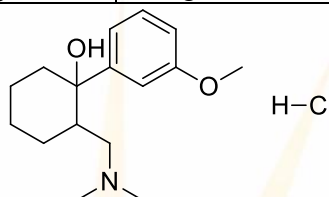




Standard Material Certificate of Analysis

Product Name		Tramadol Related Compound-A					
Other Names		Tramadol EP Impurity-A; (1RS,2SR)-2-[(dimethylamino)methyl]-1-(3-methoxyphenyl)-cyclohexanol hydrochloride; Tramadol Related Compound A (CIV)					
CAS Number		73806-49-2	Lot Quantity		50g	M. Wt.	299.84 g/mol
Lot Number		MLS-TRM-USP-RC-A/002		Mfg.		November-2024	
Molecular formula		C ₁₆ H ₂₅ NO ₂ ·HCl		Retest		November-2026	
COA Date		02-11-2024	Shipment & Storage		Shipment: Room temperature. Long term storage: Refrigerator 2-8°C		
Chemical structure		<div></div>					
S. No.	Test Name		Specifications			Results	
1	Description		White Solid.			Complies	
2	Identification 1. ¹ H NMR 2. MASS 3. FT-IR		Spectral data should confirm the chemical structure. Spectral data should confirm the chemical structure. Spectral data should confirm the chemical structure			Complies (Results: Annex-1) Complies (Results: Annex-2) Complies (Results: Annex-3)	
3	Purity by UPLC		Not less than 90.0%			91.77% (Results: Annex-4)	
4	Water content by KF		Report the results			1.598% (Results: Annex-5)	
5	Potency		Report the results			90.17%	

Note:

1. The above standard material complies with the NMR, MASS, FT-IR spectral studies.
2. This standard material can be used for qualitative and quantitative analysis only.

Prepared by	Authorized by
D. Priyanka	Vahidunnisa