

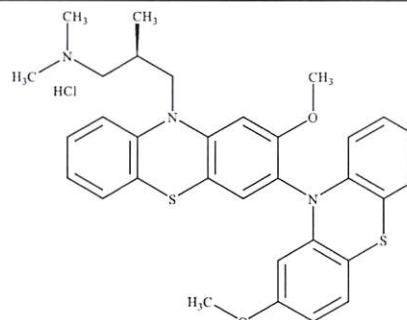
Certificate of Analysis

Certificate No.: 20260122006



Date: January 22, 2026

Retest date: January 21, 2029

Compound Name: Levomepromazine EP Impurity D HCl	
Synonyms:	(R)-3-(2,2'-dimethoxy-10H-[3,10'-biphenothiazin]-10-yl)-N,N,2-trimethylpropan-1-amine, hydrochloride (1:1)
TLC Catalogue Number:	L-104015
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	555.76 36.46
Molecular Formula:	C ₃₂ H ₃₃ N ₃ O ₂ S ₂ . HCl
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7258-014A5
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO, Acetonitrile, Ethanol



Test Description	Specifications	Results
Visual Description	Off-white solid	Conforms
Identification		
IR	Conforms to structure	Conforms
MS	Conforms to structure	Conforms
¹ H NMR	Conforms to structure	Conforms
Purity (HPLC)	Not less than 95.0%	99.0%
Impurity (HPLC)	RT 5.00, 0.22%; RT 17.39, 0.37%; RT 20.34, 0.16%	
Purity (Chiral HPLC)	Not less than 98.0%	99.4%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.42, CH ₃ OH): -3.3°
Residual Solvents (NMR)	1.6% diethyl ether	
Assay (qNMR)	Not less than 90.0%	92.1%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		01/22/2026
Approved by:	Quality Assurance		01/22/2026

Attachments: Peak Attribution Table, Assay Calculation, HPLC, IR, MS and NMR spectra.