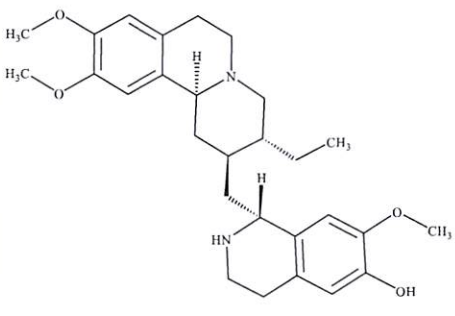


Certificate of Analysis



 Certificate No.: **20260608002**

Date: June 8, 2026

Retest date: June 1, 2027

Compound Name:	Cephaeline	
Synonyms:	(R)-1-(((2S,3R,11bS)-3-ethyl-9,10-dimethoxy-1,3,4,6,7,11b-hexahydro-2H-pyrido[2,1-a]isoquinolin-2-yl)methyl)-7-methoxy-1,2,3,4-tetrahydroisoquinolin-6-ol	
TLC Catalogue Number:	C-309003	
CAS Number:	483-17-0	
Alternate CAS Number:	1408246-78-5 (HBr salt)	
Molecular Weight:	466.62	
Molecular Formula:	C ₂₈ H ₃₈ N ₂ O ₄	
Source:	TLC Pharmaceutical Standards	
Source Lot No.:	7134-020A1	
Storage Conditions:	Store at -20 °C	
Solubility:	Methanol, DMSO, Ethanol	

Test Description	Specifications	Results
Visual Description	Pale yellow 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%	96.2%
Impurity (HPLC)	RT 12.24, 0.57%; RT 15.25, 0.38%; RT 26.69, 0.39%	
Water Content (KF)	N/A	2.1%
Residue (TGA at 800 °C)	N/A	0.0%
Optical Rotation	[α] _D ^{25.0} (c=1.00, CHCl ₃): -41.0°	[α] _D ^{25.0} (c=0.75, CHCl ₃): -43.3°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	94.2%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/08/2026
Approved by:	Quality Assurance		06/08/2026

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