

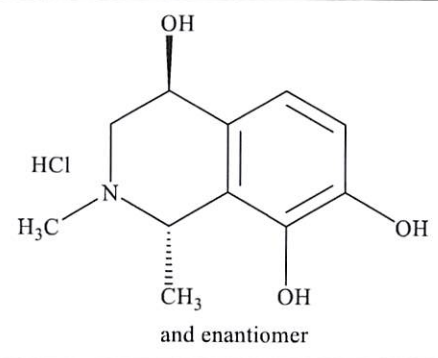
Certificate of Analysis

Certificate No.: **20260608011**

Date: June 8, 2026



Retest date: June 2, 2027

Compound Name: <i>trans</i> -Epinephrine Impurity 122 HCl	
Synonyms:	<i>rel</i> -(1 <i>S</i> ,4 <i>S</i>)-1,2-dimethyl-1,2,3,4-tetrahydroisoquinoline-4,7,8-triol, hydrochloride (1:1)
TLC Catalogue Number:	E-26146
CAS Number:	92469-57-3
Alternate CAS Number:	769878-08-2 (free base)
Molecular Weight:	209.25 36.46
Molecular Formula:	C ₁₁ H ₁₅ NO ₃ . HCl
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7337-076A4
Storage Conditions:	Protect from light and air, hygroscopic, store at 2-8 °C
Solubility:	Methanol, DMSO, Water



and enantiomer

Test Description	Specifications	Results
Visual Description	Pale brown 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%	97.9%
Impurity (HPLC)	RT 3.01, 0.41%; RT 6.23, 0.59%; RT 13.46, 0.52%	
Water Content (KF)	N/A	0.6%
Residual Solvents (NMR)	0.7% methanol and 0.1% isopropyl ether	
Assay (%)	Not less than 90.0%	96.5%
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 and NMR spectra.