

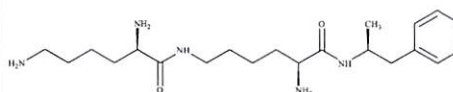
Certificate of Analysis

Certificate No.: 20260602501



Date: June 2, 2026

Retest date: May 26, 2029

Compound Name: Lisdexamphetamine Impurity 22	
Synonyms:	<i>N</i> -[(<i>S</i>)-1-methyl-2-phenylethyl](<i>S</i>)-2-amino-6-[(<i>R</i>)-1,5-diaminopentylcarbonylamino]hexanamide
TLC Catalogue Number:	L-195037
CAS Number:	N/A
Alternate CAS Number:	N/A
Molecular Weight:	391.56
Molecular Formula:	C ₂₁ H ₃₇ N ₅ O ₂
Source:	TLC Pharmaceutical Standards
Source Lot No.:	C0285-009A6
Storage Conditions:	Hygroscopic, store at 2-8 °C
Solubility:	DMSO, Water



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%	97.0%
Impurity (HPLC)	RT 3.02, 0.52%; RT 13.68, 2.20%	
Water Content (KF)	N/A	0.6%
Optical Rotation	N/A	[α] _D ^{25.0} (c=0.34, CH ₃ OH): +7.6°
Residual Solvents (NMR)	No residual solvent	
Assay (%)	Not less than 90.0%	96.4%
Recommendation:	Release. The compound contains 2.2% isomeric impurity (RT 13.68) according to its HPLC and LC-MS.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		06/02/2026
Approved by:	Quality Assurance		06/02/2026

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