

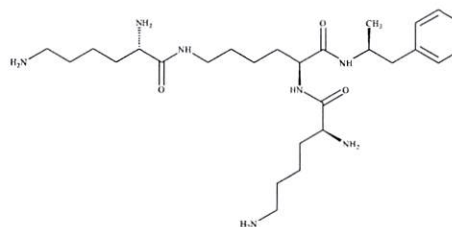
Certificate of Analysis

Certificate No.: **20260528511**


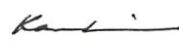
Date: May 28, 2026

Retest date: May 26, 2029

Compound Name: Lisdexamphetamine Impurity 24	
Synonyms:	<i>N</i> -[(<i>S</i>)-1-methyl-2-phenylethyl](<i>S</i>)-2,6-bis[(<i>S</i>)-1,5-diaminopentylcarbonylamino]hexanamide
TLC Catalogue Number:	L-195039
CAS Number:	2243794-25-2
Alternate CAS Number:	N/A
Molecular Weight:	519.73
Molecular Formula:	C ₂₇ H ₄₉ N ₇ O ₃
Source:	TLC Pharmaceutical Standards
Source Lot No.:	C0244-035A4
Storage Conditions:	Hygroscopic, store at 2-8 °C
Solubility:	DMSO, Water



Test Description	Specifications	Results
Visual Description	White to 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%	97.1%
Impurity (HPLC)	RT 12.23, 0.69%; RT 12.81, 0.76%; RT 13.20, 0.47%	
Water Content (KF)	N/A	0.7%
Optical Rotation	N/A	$[\alpha]_D^{25.0}(c=0.34, H_2O): -7.1^\circ$
Residual Solvents (NMR)	0.2% methanol	
Assay (%)	Not less than 90.0%	96.2%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		05/28/2026
Approved by:	Quality Assurance		05/29/2026

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