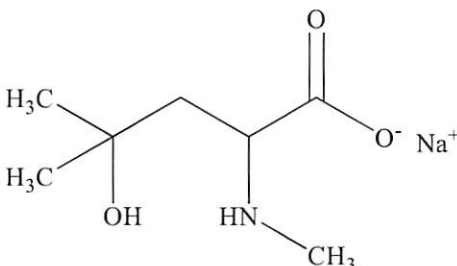


Certificate of Analysis



Certificate No.: 20251017026

Date: October 17, 2025

Retest date: October 16, 2028

Compound Name:	Cyclosporin Impurity 3 Sodium Salt		
Synonyms:	4-hydroxy-4-methyl-2-(methylamino)pentanoic acid, sodium salt (1:1)		
TLC Catalogue Number:	PC-5413		
CAS Number:	N/A		
Alternate CAS Number:	1822575-19-8 (free acid)		
Molecular Weight:	160.19 22.99		
Molecular Formula:	C ₇ H ₁₄ NO ₃ · Na		
Source:	TLC Pharmaceutical Standards		
Source Lot No.:	4024-026A2		
Storage Conditions:	Hygroscopic, store at 2-8 °C		
Solubility:	Methanol, DMSO, DMF, Water		

Test Description	Specifications	Results
Visual Description	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%	100.0%
Impurity (HPLC)	N/A	
Residual Solvents (NMR)	2.1% methanol	
Assay (qNMR)	Not less than 90.0%	94.1%
Recommendation:	Release.	

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control		10/17/2025
Approved by:	Quality Assurance		10/17/2025

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