

TLC PHARMACEUTICAL STANDARDS



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Certificate of Analysis

Certificate No.: 20251216018

Date: December 16, 2025	Retest date: December 12, 2028

		recest date. December 12, 2020		
Compound Name: Minocycline-d ₆ Ditrifluoroacetate				
Synonyms:	(4S,4aS,5aR,12aS)-7-(bis(methyl-d ₃)amino)-4-(dimethylamino)-3,10,12,12a-tetrahydroxy-1,11-dioxo-1,4,4a,5,5a,6,11,12a-			
	octahydrotetracene-2-carboxamide, 2,2,2-trifluoroacetic acid (1:2)			
TLC Catalogue Number:	M-341	0		
CAS Number:	N/A	Б		
Alternate CAS Number:	1036070-10-6 (free base)	D D F		
Molecular Weight:	463.52 2*114.02	D H ₃ C CH ₃		
Molecular Formula:	C ₂₃ H ₂₁ D ₆ N ₃ O ₇ . 2 C ₂ HF ₃ O ₂	н ш		
Source:	TLC Pharmaceutical Standards			
Source Lot No.:	7189-028A8	NH ₂		
Storage Conditions:	Store at 2-8 °C	OH O OH O O		
Solubility:	Methanol, DMSO	•		

Test Description	Specifications	Results	
Visual Description	Orange solid	Conforms	
Identification IR MS 1H NMR 19F NMR	Conforms to structure Conforms Conforms		
Purity (HPLC)	Not less than 95.0%	98.6%	
Impurity (HPLC)	RT 11.26, 1.36%		
Isotopic Enrichment	Not less than 98.0%	99.5%	
Optical Rotation	N/A	[a] _D ^{20.0} (c=0.37, DMSO): -147.0 °	
Residual Solvents (NMR)	No residual solvent		
Assay (qNMR)	Not less than 90.0%	91.6%	
Recommendation:	Release.		

Name	Department	Signature	Date
Reviewed and approved by:	Quality Control	my	12/16/2025
Approved by:	Quality Assurance	2 4	12116/225

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