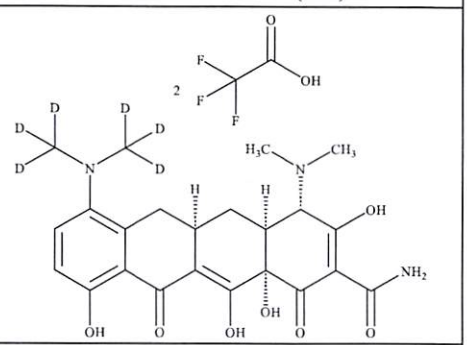
Certificate of Analysis

Certificate No.: **20251216018-2**

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

Compound Name:	**Minocycline-d_6 Ditrifluoroacetate (Tigecycline EP impurity C-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
CAS Number:	N/A
Alternate CAS Number:	1036070-10-6 (free base)
Molecular Weight:	463.52 2*114.02
Molecular Formula:	$C_{23}H_{21}D_6N_3O_7$. 2 $C_2HF_3O_2$
Source:	TLC Pharmaceutical Standards
Source Lot No.:	7189-028A8
Storage Conditions:	Store at 2-8 °C
Solubility:	Methanol, DMSO



Test Description	**Specifications**	**Results**
Visual Description	Orange solid	**Conforms**
Identification		
IR	Conforms to structure	**Conforms**
MS	Conforms to structure	**Conforms**
^{1}H NMR	Conforms to structure	**Conforms**
^{19}F NMR	Conforms to structure	**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	$[\alpha]_D^{20.0}$(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		06/04/2026
Approved by:	Quality Assurance		06/04/2026

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