



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-506216
Lot Number: SAMPLE
Product Name: Doxycycline-13C-d3 HCl
CAS Number: 2747918-45-0
Molecular Formula: $C_{22}H_{21}N_2O_8D_3 \cdot HCl$
Molecular Weight: 483.92

Test	Specification	Result
Appearance	Off-white solid	Complies
Assay	$\geq 90.0\%$	93.3%
Identification (1H-NMR)	Conforms to structure	
Identification (Infrared Spectrum)	Conforms to structure	
Identification (Mass Spectrometry)	Conforms to structure	
Isotopic Enrichment	$\geq 98.0\%$	99.4%
Purity (HPLC)	$\geq 95.0\%$	97.1%
Residual Solvents		0.2% acetonitrile
Solubility		Methanol, DMSO
Optical Rotation ($\alpha_{25/D}$)		-113.8° (c=0.38, 1 N HCl (aq.): CH3OH=1:99 (V/V))
Impurity		HPLC RT 7.22, 1.42% RT 8.27, 0.37% RT 20.50, 0.15%
Water Content (KF)		3.7%

Satisfaction Guarantee: We appreciate your business and are committed to providing the highest level of quality and service. Any product that does not meet the performance standards indicated in our product literature will be replaced at no charge. Our policy is valid for one year from the date of your purchase.

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