



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-217851
Lot Number: SAMPLE
Product Name: Cefaclor-d5
CAS Number: 1426173-90-1
Molecular Formula: $C_{15}H_9D_5ClN_3O_4S$
Molecular Weight: 372.84

Test	Specification	Result
Appearance	White to off white solid	Complies
Identification (1H-NMR)	Consistent with structure	Complies
Identification (Infrared Spectrum)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Isotopic Enrichment	$\leq 98\%$	99.2%
Purity (1H-NMR)	$\geq 85\%$	85.6%
Purity (HPLC)	$\geq 95\%$	95.5%
Elemental Analysis	Consistent with structure	Complies
Residual Solvents		No residual solvent by NMR
Optical Rotation ($\alpha_{25/D}$)		+95.1° (c = 0.13, H ₂ O)
Impurity	RT 1.00, 1.63%; RT 9.03, 0.30% RT 9.78, 0.50% by HPLC	Complies

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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