



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-498148
Lot Number: SAMPLE
Product Name: Flucloxacillin-13C4 Sodium
CAS Number: 1847-24-1 unlabeled
Molecular Formula: $C_{16}(^{13}C)_4H_{16}ClFN_2O_5S \cdot Na$
Molecular Weight: 475.85
Native Source: Synthetic

Test	Specification	Result
Appearance		White to off-white solid
Identification (1H-NMR)		Consistent with structure
Identification (13C-NMR)		Consistent with structure
Identification (19F-NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Isotopic Purity		99.4%
Purity (TLC)		95%
Atmosphere		Air
Melting Point		>176 °C (dec.)
Solubility		DMSO (slightly), Methanol (slightly), Water (slightly)
Specific Rotation		+191.4° (c = 0.1, Water)
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Carbon Content	47.59%	46.00%
Hydrogen Content	3.36%	3.47%
Nitrogen Content	8.76%	8.32%
Sodium		5.01% by Ion Chromatography

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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