



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-217751  
Lot Number: SAMPLE  
Product Name: Betamethasone-d5  
CAS Number: 378-44-9 (unlabeled)  
Molecular Formula:  $C_{22}H_{24}D_5FO_5$   
Molecular Weight: 397.49  
Native Source: Synthetic

Test	Specification	Result
Appearance		Pale yellow solid
Identification ( $^1H$ -NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Isotopic Purity		97%
Purity (HPLC)		98.64%
Atmosphere		Inert gas
Melting Point		233 – 236 °C
Solubility		Acetone, Methanol
Specific Rotation		+100.3° (c = 0.1, acetone)
Carbon Content		66.54%
Hydrogen Content		7.59%

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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