



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-473411
Lot Number: SAMPLE
Product Name: Serotonin-d4 hydrochloride
CAS Number: 50-67-9 (unlabeled)
Molecular Formula: $C_{10}H_8D_4N_2O \cdot HCl$
Molecular Weight: 216.68
Native Source: Synthetic

Test	Specification	Result
Appearance	Pale grey to very dark brown solid	Pale grey to brown solid
Identification (NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Isotopic Purity	> 95%	97.2% (d0 = 0.21%)
Purity		98%
Purity (HPLC)	> 95%	100.00% (220 nm)
Carbon Content		52.85%
Chloride		15.9%
Hydrogen Content		6.30%
Nitrogen Content		11.84%
Water Content		~4.7% based on Elemental Analysis

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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