



CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-477954
Lot Number: SAMPLE
Product Name: Orotic Acid-13C, 15N2 Monohydrate
CAS Number: 50887-69-9 (unlabeled)
Molecular Formula: $C_{413}CH_{415}N_2O_4 \cdot H_2O$
Molecular Weight: 177.09
Native Source: Synthetic

Test	Specification	Result
Appearance		White solid
Identification (1H -NMR)		Consistent with structure
Identification (^{13}C -NMR)		Consistent with structure
Identification (^{15}N -NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Isotopic Purity		99.6%
Purity		98%
Atmosphere		Air
Melting Point		> 300°C
Solubility		DMSO, Water (Sparingly)
Carbon Content	33.92%	33.79%
Hydrogen Content	3.41%	3.33%
Nitrogen Content	15.83%	15.93%

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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