



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-217879  
Lot Number: SAMPLE  
Product Name: Chlorhexidine-d8 Dihydrochloride  
CAS Number: 3697-42-5 (unlabeled)  
Molecular Formula:  $C_{22}H_{24}D_8Cl_4N_{10}$   
Molecular Weight: 586.42  
Native Source: Synthetic

Test	Specification	Result
Appearance		White solid
Identification (1H-NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Isotopic Purity		98.3%
Purity (TLC)		97%
Atmosphere		Inert gas
Melting Point		258 - 261 °C
Solubility		DMSO, Methanol (sparingly), Water
Impurity		2-Ethoxyethanol: 2%
Carbon Content	45.06%	43.25%
Chloride		13.8%
Hydrogen Content	5.50%	5.41%
Nitrogen Content	23.89%	22.65%

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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