



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-218244
Lot Number: SAMPLE
Product Name: Diphenhydramine-d6 Hydrochloride
CAS Number: 147-24-0 (unlabeled)
Molecular Formula: $C_{17}H_{15}D_6NO \cdot HCl$
Molecular Weight: 297.85
Native Source: Synthetic

| Test | Specification | Result |
|------------------------------------|---------------------------|--------------------|
| Appearance | | Light tan solid |
| Identification (1H -NMR) | Consistent with structure | Complies |
| Identification (Mass Spectrometry) | Consistent with structure | Complies |
| Isotopic Purity | | 99.9% |
| Purity | | 98% |
| Atmosphere | | Inert gas |
| Melting Point | | 167 - 169 °C |
| Solubility | | Methanol and water |
| Carbon Content | 68.55% | 68.33% |
| Chloride | | 12.4% |
| Hydrogen Content | 7.44% | 7.7% |
| Nitrogen Content | 4.7% | 4.66% |

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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