



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-220370
Lot Number: SAMPLE
Product Name: Varenicline-d4 Hydrochloride (Major)
CAS Number:
Molecular Formula: $C_{13}H_9D_4N_3 \cdot HCl$
Molecular Weight: 215.29
Native Source: Synthetic

Test	Specification	Result
Appearance	Pale green to light yellow solid	Pale green to pale yellow solid
Identification (NMR)	Consistent with structure	Complies
Identification (Mass Spectrometry)	Consistent with structure	Complies
Purity (HPLC)	> 95%	99.66%
Purity (TLC)		96%
Carbon Content	54.18%	53.63%
Chloride		18.00%
Hydrogen Content	5.27%	5.60%
Methanol		~ 1.0%
Nitrogen Content	14.58%	14.45%
Water Content		~ 5.5% 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.

Santa Cruz Biotechnology, Inc. 800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 62221 4503 0 www.scbt.com