



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-219359  
Lot Number: SAMPLE  
Product Name: (-)-Nicotine Mono Tartrate  
CAS Number: 6550-19-2  
Molecular Formula:  $C_{14}H_{20}N_2O_6$   
Molecular Weight: 312.32

| Test                               | Specification             | Result                                        |
|------------------------------------|---------------------------|-----------------------------------------------|
| Appearance                         |                           | Pale Yellow Low-Melting Solid                 |
| Identification (NMR)               | Consistent with structure | Complies                                      |
| Identification (Mass Spectrometry) | Consistent with structure | Complies                                      |
| Purity (TLC)                       |                           | 98%                                           |
| Melting Point                      |                           | 40 - 44°C                                     |
| Specific Rotation                  |                           | Specific Rotation: -13.4° (c = 1.0, Methanol) |
| Carbon Content                     | 53.84%                    | 51.71%                                        |
| Hydrogen Content                   | 6.45%                     | 6.47%                                         |
| Nitrogen Content                   | 8.97 %                    | 8.35%                                         |

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](http://www.scbt.com)