



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-472911  
Lot Number: SAMPLE  
Product Name: Sitafoxacin Sesquihydrate  
CAS Number: 163253-35-8  
Molecular Formula:  $C_{19}H_{18}ClF_2N_3O_3 \cdot 1.5H_2O$   
Molecular Weight: 436.84

| Test                               | Specification | Result                                                                     |
|------------------------------------|---------------|----------------------------------------------------------------------------|
| Appearance                         |               | White to off-white solid                                                   |
| Identification (1H-NMR)            |               | Consistent with structure                                                  |
| Identification (19F-NMR)           |               | Consistent with structure                                                  |
| Identification (Mass Spectrometry) |               | Consistent with structure                                                  |
| Purity (TLC)                       |               | 98%                                                                        |
| Atmosphere                         |               | Inert gas                                                                  |
| Melting Point                      |               | > 138 °C (dec.)                                                            |
| Solubility                         |               | Aqueous Base (slightly), DMSO (slightly), Methanol (very slightly, heated) |
| Specific Rotation                  |               | -254.1° (c = 0.20, 1 N NaOH)                                               |
| Carbon Content                     | 52.24%        | 51.62%                                                                     |
| Hydrogen Content                   | 4.85%         | 4.94%                                                                      |
| Nitrogen Content                   | 9.62%         | 9.41%                                                                      |
| Water Content                      |               | 7.3% (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](http://www.scbt.com)