



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-396773  
Lot Number: SAMPLE  
Product Name: Pemetrexed, Disodium Salt, Heptahydrate  
CAS Number: 357166-29-1  
Molecular Formula:  $C_{20}H_{19}N_5O_6 \cdot 2Na \cdot 7H_2O$   
Molecular Weight: 597.48

| Test                                     | Specification            | Result                                     |
|------------------------------------------|--------------------------|--------------------------------------------|
| Identification (Infrared Spectrum)       | Consistent with standard | Complies                                   |
| Identification (Mass Spectrometry - ESI) | M-2Na: 426.4             | Complies                                   |
| Purity (HPLC)                            | > 98%                    | 100.0%<br>Retention Time Actual.: 5.50 min |
| Purity (TLC)                             | > 98%                    | 100.00%<br>Rf = 0.64                       |
| Melting Point                            | 340 - 350 °C (dec.)      | 343 - 346 °C (dec.)                        |
| $\lambda_{max}$                          | 224 nm                   | Complies                                   |

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)