



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-221977  
Lot Number: SAMPLE  
Product Name: N-3-oxo-hexadec-11Z-enoyl-L-Homoserine lactone  
CAS Number: 479050-91-4  
Molecular Formula:  $C_{20}H_{33}NO_4$   
Molecular Weight: 351.50

| Test                                     | Specification            | Result                                    |
|------------------------------------------|--------------------------|-------------------------------------------|
| Identification (Infrared Spectrum)       | Consistent with standard | Complies                                  |
| Identification (Mass Spectrometry - ESI) | M-H <sup>+</sup> : 350.5 | M-H <sup>+</sup> : 350.3                  |
| Purity (HPLC)                            | ≥ 98%                    | 100.0%<br>Retention time actual: 5.30 min |
| Purity (TLC)                             | ≥ 98%                    | 100.00%<br>Rf = 0.47                      |
| λ <sub>max</sub>                         | 246 nm                   | 249 nm                                    |

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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