



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-479502  
Lot Number: SAMPLE  
Product Name: N-Acetyl Glyphosate-13C2,15N  
CAS Number: 1346598-31-9  
Molecular Formula:  $C_8(^{13}C)_2H_{10}(^{15}N)O_5P$   
Molecular Weight: 214.09  
Native Source: Synthetic

| Test                               | Specification | Result                                |
|------------------------------------|---------------|---------------------------------------|
| Appearance                         |               | Off-white solid                       |
| Identification ( $^1H$ -NMR)       |               | Consistent with structure             |
| Identification ( $^{13}C$ -NMR)    |               | Consistent with structure             |
| Identification ( $^{31}P$ -NMR)    |               | Consistent with structure             |
| Identification (Mass Spectrometry) |               | Consistent with structure             |
| Isotopic Purity                    |               | 98.1%                                 |
| Purity (TLC)                       |               | 95%                                   |
| Atmosphere                         |               | Inert gas                             |
| Melting Point                      |               | 58 - 71 °C                            |
| Solubility                         |               | Methanol (slightly), water (slightly) |
| Carbon Content                     | 28.03%        | 26.78%                                |
| Hydrogen Content                   | 4.71%         | 4.85%                                 |
| Nitrogen Content                   | 6.54%         | 6.12%                                 |
| Water Content                      |               | 4.43% (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.

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