



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-288173  
Lot Number: SAMPLE  
Product Name: 2-Keto-3-methyl-13C-butyric-4-13C, 3-d acid sodium salt  
CAS Number:  
Molecular Formula:  $(^{13}\text{C})_7\text{H}_5\text{C}_2\text{DO}_3\text{Na}$   
Molecular Weight: 141.09

| Test                                   | Specification                             | Result     |
|----------------------------------------|-------------------------------------------|------------|
| Appearance                             | White powder                              | Complies   |
| Enrichment                             | Proton NMR-D enrichment: $\geq 98.0\%$    | $> 99.4\%$ |
| Enrichment                             | $^{13}\text{C}$ Enrichment: $\geq 99.0\%$ | $> 99.3\%$ |
| Identification (D-NMR)                 |                                           | Complies   |
| Identification ( $^1\text{H}$ -NMR)    |                                           | Complies   |
| Identification ( $^{13}\text{C}$ -NMR) |                                           | Complies   |
| Purity (IC)                            | $\geq 97.0\%$                             | 98.9%      |
| Water Content (KF)                     | $\leq 1.0\%$                              | 0.3%       |

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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