



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-475585  
Lot Number: SAMPLE  
Product Name: L-Valine-13C5,15N  
CAS Number: 202407-30-5  
Molecular Formula:  ${}^1_3\text{C}_5\text{H}_{1115}\text{NO}_2$   
Molecular Weight: 123.1

Test	Specification	Result
Appearance		White to off-white solid
Identification ( ${}^1\text{H}$ -NMR)		Consistent with structure
Identification ( ${}^{13}\text{C}$ -NMR)		Consistent with structure
Identification (Mass Spectrometry)		Consistent with structure
Isotopic Purity		99.1%
Purity (TLC)		98%
Atmosphere		Air
Melting Point		> 242.0°C (subl.)
Solubility		Aqueous Acid, Water
Specific Rotation		+25.6° (c = 0.12, 5N HCl)
Carbon Content	48.79%	48.99%
Hydrogen Content	9.01%	9.47%
Nitrogen Content	11.40%	11.62%

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)