



The Power to Question

CERTIFICATE OF ANALYSIS

Catalog Number: sc-301743
Lot Number: SAMPLE
Product Name: (S,S)-N-Boc-2,5-dimethylpyrrolidine
CAS Number: 156038-84-5
Molecular Formula: $C_{11}H_{21}NO_2$
Molecular Weight: 199.29

Test	Specification	Result
Appearance	Colorless to yellow liquid	Colorless liquid
Identification (1H -NMR)		Consistent with structure
Identification (^{13}C -NMR)		Consistent with structure
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (GC)	$\geq 94.0\%$	98.6%
Optical Rotation	$+45.0 \pm 4^\circ$ (c = 1%, $CHCl_3$)	$+45.1^\circ$
Refractive Index		1.4439
Carbon Content	62.3 - 703. %	66.53%
Nitrogen Content	6.6 - 7.5%	6.71%

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