



# CERTIFICATE OF ANALYSIS

The Power to Question

Catalog Number: sc-253112  
Lot Number: SAMPLE  
Product Name: N-Hippuryl-His-Leu hydrate  
CAS Number: 207386-83-2  
Molecular Formula:  $C_{21}H_{27}N_5O_5 \cdot xH_2O$   
Molecular Weight: 429.47 (anhydrous)

Test	Specification	Result
Appearance (Color)	White to off-white	White
Appearance (Form)	Powder	Complies
Identification (Infrared Spectrum)	Consistent with structure	Complies
Purity (HPLC)	$\geq 98.5\%$	99.3%
Solution (Color)	Colorless to very faint yellow (c = 50 mg/ml (5%); Acetic Acid)	Colorless (c = 50 mg/ml (5%); Acetic Acid)
Solution (Turbidity)	Clear (c = 50 mg/ml (5%); Acetic Acid)	Complies
Optical Rotation	-43.0 - -37.0° (c = 1%, 1N HCl)	-41.0° (c = 1%, 1N HCl)
Carbon Content	57.5 - 59.9%	58.6%
Nitrogen Content	16.0 - 16.6%	16.2%
Water Content (KF)	$\leq 18.0\%$	5.0%

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)