



The Power to Question

# CERTIFICATE OF ANALYSIS

Catalog Number: sc-214956  
Lot Number: SAMPLE  
Product Name: Ectoine  
CAS Number: 96702-03-3  
Molecular Formula:  $C_6H_{10}N_2O_2$   
Molecular Weight: 142.16

Test	Specification	Result
Appearance	White to white with yellow cast powder	White powder
Identification (NMR)		Consistent with structure
Purity (HPLC)	$\geq 98.0\%$	98.1%
Purity (TLC)	$\geq 98.0\%$	100.0%
Solubility	Clear colorless to faint yellow at 19.60 - 20.40 mg/ml in methanol	Clear colorless at 20.00 mg/ml in methanol
Specific Rotation	160.00 - 168.00° (c = 9.00 - 11.00 mg/ml in methanol)	160.78° (c = 10.25 mg/ml in methanol)
Carbon Content	50.19 - 51.19% (anhydrous)	50.94%
Nitrogen Content	19.21 - 20.21%(anhydrous)	19.74%
Water Content (KF)	$\geq 0.00\%$	0.90%

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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