

Analytical Data Sheet

Lot number **1000005810**
not for drug use

Catalog number **F-1425.0001**
Product number **4002405.0001**
Product **H- β - Chloro- Ala- OH**
Molecular formula **C₃H₆ClNO₂**
Relative molecular mass **123.54**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in water)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 29.2%</td> <td>C = 29.2%</td> </tr> <tr> <td>H = 4.9%</td> <td>H = 5.0%</td> </tr> <tr> <td>N = 11.3%</td> <td>N = 11.2%</td> </tr> </tbody> </table>	Theory	Found	C = 29.2%	C = 29.2%	H = 4.9%	H = 5.0%	N = 11.3%	N = 11.2%
Theory	Found								
C = 29.2%	C = 29.2%								
H = 4.9%	H = 5.0%								
N = 11.3%	N = 11.2%								
Identification (TLC)	complies with authentic material								
Melting point	160 °C								
Specific optical rotation	$[\alpha]_D^{24} = -16.6^\circ$ (2% in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	98.9% (Nth 11.34%, Nfd 11.22%)								

Latest update: September 10, 2018

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