

Analytical Data Sheet

Lot number **1075094**
not for drug use

Catalog number **E-2290.0100**
Product number **4031088.0100**
Product **H- Pro- OH**
Molecular formula **C₅H₉NO₂**
Relative molecular mass **115.13**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 52.2%</td> <td>C = 51.9%</td> </tr> <tr> <td>H = 7.9%</td> <td>H = 7.8%</td> </tr> <tr> <td>N = 12.2%</td> <td>N = 12.1%</td> </tr> </table>	Theory	Found	C = 52.2%	C = 51.9%	H = 7.9%	H = 7.8%	N = 12.2%	N = 12.1%
Theory	Found								
C = 52.2%	C = 51.9%								
H = 7.9%	H = 7.8%								
N = 12.2%	N = 12.1%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -50.2^\circ$ (5% in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 chloroform/methanol/acetic acid/H ₂ O 60/45/14/6 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.2% D - Enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	98.8% (Nth 12.17%, Nfd 12.03%)								

Latest update: January 08, 2018

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