

Analytical Data Sheet

Lot number **1069602**
not for drug use

Catalog number **E-2290.0500**
Product number **4031088.0500**
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)	Theory Found C = 52.2% C = 52.2% H = 7.9% H = 7.8% N = 12.2% N = 12.2%
Identification (TLC)	Rf value in agreement with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -51.4^\circ$ (5 % in 1N HCl)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% D - Enantiomer
Other amino acids (GC)	none detected (< 0.3 %)
Assay (elemental analysis)	99.8% (Nth 12.17%, Nfd 12.15%)

Latest update: January 26, 2017

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