

Analytical Data Sheet

Lot number **1066838**
not for drug use

Retest date June 2020
 Catalog number **F-1100.0250**
 Product number **4029158.0250**
 Product **H- D- Ala- OH**
 Molecular formula $C_3H_7NO_2$
 Relative molecular mass 89.09

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)
Identification (IR)	complies with reference
Identification (elemental analysis)	Theory Found C = 40.4% C = 40.4% H = 7.9% H = 8.0% N = 15.7% N = 15.7%
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -14.3^\circ$ (5% in 1N HCl)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	< 0.1% L-enantiomer
Other amino acids (GC)	< 0.2%
Assay (elemental analysis)	100.1% (Nth 15.72%, Nfd 15.73%)

Latest update: July 11, 2016

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