

## Analytical Data Sheet

Lot number **1070796**  
not for drug use

Catalog number **F-1100.0025**  
Product number **4029158.0025**  
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)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 40.4%</td> <td>C = 40.4%</td> </tr> <tr> <td>H = 7.9%</td> <td>H = 8.0%</td> </tr> <tr> <td>N = 15.7%</td> <td>N = 15.7%</td> </tr> </tbody> </table>	Theory	Found	C = 40.4%	C = 40.4%	H = 7.9%	H = 8.0%	N = 15.7%	N = 15.7%
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 <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F <sub>254</sub> 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: March 16, 2017

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