

## Analytical Data Sheet

Lot number **1064683**  
not for drug use

Catalog number **F-2090.0005**  
Product number **4031221.0005**  
Product **H- D- Ser- OH**  
Molecular formula **C<sub>3</sub>H<sub>7</sub>NO<sub>3</sub>**  
Relative molecular mass **105.09**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in 1 N HCl)
Identification (elemental analysis)	Theory Found C = 34.3% C = 34.3% H = 6.7% H = 6.8% N = 13.3% N = 13.3%
Identification (TLC)	Rf value in agreement with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -14.5^\circ$ (5 % in 1 N 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)	0.5% L-Enantiomer
Other amino acids (GC)	< 0.3%
Assay (elemental analysis)	100.2% (Nth 13.33% Nfd 13.35%)

Latest update: March 07, 2016

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