

Analytical Data Sheet

Lot number **1000039860**
not for drug use

Product H-Ser-OH
Product number **4031220.0100**
Molecular formula C₃H₇NO₃
Relative molecular mass 105.09

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)
Identification (elemental analysis)	C-Value 34.6% H-Value 6.4% N-Value 13.3%
Identification (TLC)	Rf value in agreement with authentic material
Specific optical rotation	$[\alpha]_D^{24} = 15.2^\circ$ (5% in 1N HCl)
Purity (TLC)	> 99%
TLC conditions	n-butanol/acetic acid/ H ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 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)	< 0.20%
Assay (elemental analysis)	99.6% (Nth 13.33%, Nfd 13.28%)

Latest update: October 06, 2020

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