

Analytical Data Sheet

Lot number **1000018205**
not for drug use

Catalog number **E-2375.0250**
Product number **4031220.0250**
Product **H- Ser- OH**
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)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 34.3%</td> <td>C = 34.3%</td> </tr> <tr> <td>H = 6.7%</td> <td>H = 6.4%</td> </tr> <tr> <td>N = 13.3%</td> <td>N = 13.3%</td> </tr> </table>	Theory	Found	C = 34.3%	C = 34.3%	H = 6.7%	H = 6.4%	N = 13.3%	N = 13.3%
Theory	Found								
C = 34.3%	C = 34.3%								
H = 6.7%	H = 6.4%								
N = 13.3%	N = 13.3%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +15.0^\circ$ (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								
Other amino acids (GC)	< 0.2% each single other amino acid								
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer								
Assay (elemental analysis)	100.0% (Nth 13.33%, Nfd 13.33%)								

Latest update: July 09, 2019

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