

Analytical Data Sheet

Lot number

1039117

not for drug use

Catalog Number	F-2090.0100
Product number	4031221.0100
Product	H- D- Ser- OH
Molecular formula	C ₃ H ₇ NO ₃
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)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 34.3 %</td> <td>C = 34.4 %</td> </tr> <tr> <td>H = 6.7 %</td> <td>H = 6.7 %</td> </tr> <tr> <td>N = 13.3 %</td> <td>N = 13.3 %</td> </tr> </table>	Theory	Found	C = 34.3 %	C = 34.4 %	H = 6.7 %	H = 6.7 %	N = 13.3 %	N = 13.3 %
Theory	Found								
C = 34.3 %	C = 34.4 %								
H = 6.7 %	H = 6.7 %								
N = 13.3 %	N = 13.3 %								
Identification (TLC)	complies 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 ₂ O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.5% L-Enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	100.0% (Nth 13.33 %, Nfd 13.33 %)								

Latest update: October 12, 2011

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