

Analytical Data Sheet

Lot number **1068214**
not for drug use

Catalog number **G-3220.0001**
Product number **4001222.0001**
Product **H- Ser- Phe- OH**
Molecular formula $C_{12}H_{16}N_2O_4$
Relative molecular mass 252.27

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (10 mg/mL in AcOH 80%)								
Identification (ESI-MS)	m = 252.2u (average mass)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 57.1 %</td> <td>C = 56.8 %</td> </tr> <tr> <td>H = 6.4 %</td> <td>H = 6.2 %</td> </tr> <tr> <td>N = 11.1 %</td> <td>N = 10.9 %</td> </tr> </tbody> </table>	Theory	Found	C = 57.1 %	C = 56.8 %	H = 6.4 %	H = 6.2 %	N = 11.1 %	N = 10.9 %
Theory	Found								
C = 57.1 %	C = 56.8 %								
H = 6.4 %	H = 6.2 %								
N = 11.1 %	N = 10.9 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +19.8^\circ$ (0.5 % in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	methanol/chloroform/ammonia 17% 2/2/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 n-butanol/acetic acid/H ₂ O 4/2/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	98.5% (Nth 11.10 %, Nfd 10.93 %)								
Assay (titration)	98.3% (HClO ₄)								

Latest update: October 13, 2016

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