

Analytical Data Sheet

Lot number

1041878

not for drug use

Catalog Number	G-1785.0005
Product number	4003140.0005
Product	Cyclo(- Ser- Ser)
Molecular formula	C ₆ H ₁₀ N ₂ O ₄
Relative molecular mass	174.16

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (10 mg/mL in 80% acetic acid)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 41.4%</td> <td>C = 41.5%</td> </tr> <tr> <td>H = 5.8%</td> <td>H = 5.6%</td> </tr> <tr> <td>N = 16.1%</td> <td>N = 16.2%</td> </tr> </table>	Theory	Found	C = 41.4%	C = 41.5%	H = 5.8%	H = 5.6%	N = 16.1%	N = 16.2%
Theory	Found								
C = 41.4%	C = 41.5%								
H = 5.8%	H = 5.6%								
N = 16.1%	N = 16.2%								
Identification (TLC)	complies with authentic material								
Melting point	243 °C								
Specific optical rotation	$[\alpha]_D^{24} = +38.4^\circ$ (0.1% in acetic acid)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/acetic acid 32% 5/3/1 n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 6/4/1/3 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	100.4% (Nth 16.08%, Nfd 16.15%)								
Water content (KF volumetric)	0.1 %								
Latest update: April 20, 2012									