

Analytical Data Sheet

Lot number **1000030261**
not for drug use

Catalog number **G-1785.0001**
Product number **4003140.0001**
Product **Cyclo(- Ser- Ser)**
Molecular formula **C₆H₁₀N₂O₄**
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> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <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> </tbody> </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: March 19, 2020

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