

Analytical Data Sheet

Lot number **1070934**
not for drug use

Catalog number **E-1655.0005**
Product number **4001695.0005**
Product **H- Ser(tBu) - OH**
Molecular formula $C_7H_{15}NO_3$
Relative molecular mass 161.20

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in acetic acid 80%)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 51.1%</td> <td>C = 51.2%</td> </tr> <tr> <td>H = 9.4%</td> <td>H = 9.4%</td> </tr> <tr> <td>N = 8.5%</td> <td>N = 8.5%</td> </tr> </tbody> </table> <p>calc. x 0.19 H₂O (2.1%)</p>	Theory	Found	C = 51.1%	C = 51.2%	H = 9.4%	H = 9.4%	N = 8.5%	N = 8.5%
Theory	Found								
C = 51.1%	C = 51.2%								
H = 9.4%	H = 9.4%								
N = 8.5%	N = 8.5%								
Identification (TLC)	complies with authentic material								
Melting point	237 °C								
Specific optical rotation	$[\alpha]_D^{24} = -17.0^\circ$ (1% in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 ethylacetate/pyridine/acetic acid/H ₂ O 6/4/1/3 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	98.2% (Cth 52.16%, Cfd 51.19%)								
Water content (KF volumetric)	2.1%								

Latest update: March 23, 2017

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