

# Analytical Data Sheet

Lot number

## 1039652

not for drug use

<b>Catalog Number</b>	<b>A-1335.0005</b>
<b>Product number</b>	<b>4002168.0005</b>
<b>Product</b>	<b>Boc- D- Ser(Bzl) - OH</b>
<b>Molecular formula</b>	<b>C<sub>15</sub>H<sub>21</sub>NO<sub>5</sub></b>
<b>Relative molecular mass</b>	<b>295.34</b>

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in methanol)								
<b>Identification (elemental analysis)</b>	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 61.0%</td> <td>C = 60.9%</td> </tr> <tr> <td>H = 7.2%</td> <td>H = 7.0%</td> </tr> <tr> <td>N = 4.7%</td> <td>N = 4.7%</td> </tr> </table>	Theory	Found	C = 61.0%	C = 60.9%	H = 7.2%	H = 7.0%	N = 4.7%	N = 4.7%
Theory	Found								
C = 61.0%	C = 60.9%								
H = 7.2%	H = 7.0%								
N = 4.7%	N = 4.7%								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	61 °C								
<b>Specific optical rotation</b>	$[\alpha]_D^{24} = -20.0^\circ$ ( 2 % EtOH 80 %)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	<p>&lt; 0.1% H-D-Ser(Bzl)-OH</p> <p>&lt; 0.2% Boc-D-Ser-OH</p> <p>&lt; 0.1% Boc-D-Ser(Bzl)-D-Ser(Bzl)-OH</p>								
<b>TLC conditions</b>	<p>toluene/dioxane/acetic acid 95/25/4</p> <p>chloroform/ethylacetate/acetic acid 50/50/2</p> <p>chloroform/methanol/toluene/H<sub>2</sub>O 8/8/8/1</p> <p>plate: silicagel 60 F<sub>254</sub></p> <p>detected by: UV, ninhydrin, TMB</p>								
<b>Enantiomer content (GC)</b>	0.1% L-Enantiomer								
<b>Other amino acids (GC)</b>	< 0.3%								
<b>Assay (elemental analysis)</b>	99.8% (Cth 61.00%, Cfd 60.87%)								
<b>Assay (titration)</b>	98.4% (TBAH)								
<b>Water content (KF volumetric)</b>	0.2%								
Latest update: November 14, 2011									