

Analytical Data Sheet

Lot number **1052797**
not for drug use

Catalog number **A-3905.0001**
Product number **4030402.0001**
Product **Boc- D- Cys(Bzl) - OH**
Molecular formula **C₁₅H₂₁NO₄S**
Relative molecular mass **311.40**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in methanol)								
Identification (ESI-MS)	m = 311.3u (average mass)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 57.9 %</td> <td>C = 57.5 %</td> </tr> <tr> <td>H = 6.8 %</td> <td>H = 6.8 %</td> </tr> <tr> <td>N = 4.5 %</td> <td>N = 4.5 %</td> </tr> </tbody> </table>	Theory	Found	C = 57.9 %	C = 57.5 %	H = 6.8 %	H = 6.8 %	N = 4.5 %	N = 4.5 %
Theory	Found								
C = 57.9 %	C = 57.5 %								
H = 6.8 %	H = 6.8 %								
N = 4.5 %	N = 4.5 %								
Identification (TLC)	complies with authentic material								
Melting point	88 °C								
Specific optical rotation	$[\alpha]_D^{24} = + 43.3^\circ$ (1 % in acetic acid)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 chloroform/ethylacetate/acetic acid 50/50/2 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (titration)	100.8% (TBAH)								