

Analytical Data Sheet

Lot number

1050737

not for drug use

Catalog Number	A-3905.0005
Product number	4030402.0005
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 border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <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> </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)								

Latest update: November 04, 2013

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