

Analytical Data Sheet

Lot number

1043778

not for drug use

Catalog Number	A-4590.0005
Product number	4033832.0005
Product	Boc- Ala- aldehyde
Molecular formula	$C_8H_{15}NO_3$
Relative molecular mass	173.21

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (20 mg/mL in ethylacetate)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 55.5%</td> <td>C = 55.4%</td> </tr> <tr> <td>H = 8.7%</td> <td>H = 8.6%</td> </tr> <tr> <td>N = 8.1%</td> <td>N = 8.0%</td> </tr> </table>	Theory	Found	C = 55.5%	C = 55.4%	H = 8.7%	H = 8.6%	N = 8.1%	N = 8.0%
Theory	Found								
C = 55.5%	C = 55.4%								
H = 8.7%	H = 8.6%								
N = 8.1%	N = 8.0%								
Identification (TLC)	complies with authentic material								
Melting point	91 °C								
Specific optical rotation	$[\alpha]_D^{24} = -41.1^\circ$ (1% in methanol)								
Purity (TLC)	> 98%								
TLC conditions	ethylacetate/hexane 4/5 chloroform/methanol 9/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.4% (Nth 8.09%, Nfd 8.04%)								
Latest update: July 17, 2012									