

Analytical Data Sheet

Lot number

1050969

not for drug use

Catalog Number	A-4630.0001
Product number	4036034.0001
Product	Boc- N- Me- D- Ala- OH
Molecular formula	$C_9H_{17}NO_4$
Relative molecular mass	203.24

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (ESI-MS)	m = 203.2u (average mass)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 53.2%</td> <td>C = 53.1%</td> </tr> <tr> <td>H = 8.4%</td> <td>H = 8.1%</td> </tr> <tr> <td>N = 6.9%</td> <td>N = 6.8%</td> </tr> </table>	Theory	Found	C = 53.2%	C = 53.1%	H = 8.4%	H = 8.1%	N = 6.9%	N = 6.8%
Theory	Found								
C = 53.2%	C = 53.1%								
H = 8.4%	H = 8.1%								
N = 6.9%	N = 6.8%								
Identification (TLC)	complies with authentic material								
Melting point	93 °C								
Specific optical rotation	$[\alpha]_D^{24} = +31.4^\circ$ (1% in ethanol)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Boc-D-Ala-OH < 0.2% N-Me-Ala-OH								
TLC conditions	toluene/dioxane/acetic acid 95/25/4 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Enantiomer content (GC)	< 0.1% L-Enantiomer								
Latest update: November 21, 2013									