

# Analytical Data Sheet

Lot number

**1028703**

not for drug use

Catalog Number	F-1000.0001
Product number	4002334.0001
Product	Ac- D- Ala- OH
Molecular formula	C <sub>5</sub> H <sub>9</sub> NO <sub>3</sub>
Relative molecular mass	131.13

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 45.80 %</td> <td>C = 45.73 %</td> </tr> <tr> <td>H = 6.92 %</td> <td>H = 6.99 %</td> </tr> <tr> <td>N = 10.68 %</td> <td>N = 10.75 %</td> </tr> </table>	Theory	Found	C = 45.80 %	C = 45.73 %	H = 6.92 %	H = 6.99 %	N = 10.68 %	N = 10.75 %
Theory	Found								
C = 45.80 %	C = 45.73 %								
H = 6.92 %	H = 6.99 %								
N = 10.68 %	N = 10.75 %								
Identification (TLC)	complies with authentic material								
Melting point	127 °C								
Specific optical rotation	$[\alpha]_D^{24} = +65.0^\circ$ (1 % in water)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/1/1 ethylacetate/pyridine/acetic acid/H <sub>2</sub> O 60/20/6/11 chloroform/methanol/acetic acid/H <sub>2</sub> O 45/13/1/2 plate: silicagel 60 F <sub>254</sub> detected by: ninhydrin, chlorine-tolidine								
Latest update: January 20, 2010									