

# Analytical Data Sheet

Lot number

## 1047590

not for drug use

<b>Catalog Number</b>	<b>B-1025.0100</b>
<b>Product number</b>	<b>4007989.0100</b>
<b>Product</b>	<b>Fmoc- β- Ala- OH</b>
<b>Molecular formula</b>	$C_{18}H_{17}NO_4$
<b>Relative molecular mass</b>	311.34

Tests	Results								
<b>Appearance</b>	white powder								
<b>Appearance of solution</b>	clear, colorless solution (50 mg/mL in dioxane) clear, colorless solution (0.5 mmol/mL in DMF)								
<b>Identification (elemental analysis)</b>	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 69.4%</td> <td>C = 69.0%</td> </tr> <tr> <td>H = 5.5%</td> <td>H = 5.6%</td> </tr> <tr> <td>N = 4.5%</td> <td>N = 4.3%</td> </tr> </table>	Theory	Found	C = 69.4%	C = 69.0%	H = 5.5%	H = 5.6%	N = 4.5%	N = 4.3%
Theory	Found								
C = 69.4%	C = 69.0%								
H = 5.5%	H = 5.6%								
N = 4.5%	N = 4.3%								
<b>Identification (TLC)</b>	complies with authentic material								
<b>Melting point</b>	147.9 °C								
<b>Purity (HPLC)</b>	99.6% (TFA)								
<b>Purity (TLC)</b>	> 99%								
<b>Related impurities (TLC)</b>	< < 0.1% H-β-Ala-OH 0.2% Fmoc-β-Ala-β-Ala-OH								
<b>TLC conditions</b>	chloroform/methanol/acetic acid 90/8/2 chloroform/methanol/toluene/H <sub>2</sub> O 8/8/8/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
<b>Other amino acids (GC)</b>	< 0.3%								
<b>Assay (titration)</b>	98.8%								
<b>Acetic acid content (IC)</b>	< 0.002%								

Latest update: April 03, 2013

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