

Analytical Data Sheet

Lot number

1037503

not for drug use

Catalog Number	C-2545.0005
Product number	4000216.0005
Product	Z- Pro- Pro- OH
Molecular formula	C ₁₈ H ₂₂ N ₂ O ₅
Relative molecular mass	346.38

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol) (after warming)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 62.4%</td> <td>C = 62.2%</td> </tr> <tr> <td>H = 6.4%</td> <td>H = 6.4%</td> </tr> <tr> <td>N = 8.1%</td> <td>N = 8.0%</td> </tr> </table>	Theory	Found	C = 62.4%	C = 62.2%	H = 6.4%	H = 6.4%	N = 8.1%	N = 8.0%
Theory	Found								
C = 62.4%	C = 62.2%								
H = 6.4%	H = 6.4%								
N = 8.1%	N = 8.0%								
Identification (TLC)	complies with authentic material								
Melting point	192 °C								
Specific optical rotation	$[\alpha]_D^{24} = -81.6^\circ$ (1 % in dimethylformamide)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.2% Z-Pro-OH								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/acetic acid/H ₂ O 85/13/0.5/1.5 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine, ammoniummolybdat								
Assay (elemental analysis)	99.7% (Cth 62.42%, Cfd 62.23%)								
Water content (KF volumetric)	0.1%								
Latest update: July 07, 2011									