

Analytical Data Sheet

Lot number

1007061

not for drug use

Catalog Number	C-2465.0025
Product number	4000306.0025
Product	Z- D- Pro- OH
Molecular formula	C ₁₃ H ₁₅ NO ₄
Relative molecular mass	249.27

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)								
Identification (elemental analysis)	<table> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 62.64 %</td> <td>C = 62.55 %</td> </tr> <tr> <td>H = 6.07 %</td> <td>H = 5.78 %</td> </tr> <tr> <td>N = 5.62 %</td> <td>N = 5.64 %</td> </tr> </table>	Theory	Found	C = 62.64 %	C = 62.55 %	H = 6.07 %	H = 5.78 %	N = 5.62 %	N = 5.64 %
Theory	Found								
C = 62.64 %	C = 62.55 %								
H = 6.07 %	H = 5.78 %								
N = 5.62 %	N = 5.64 %								
Identification (TLC)	complies with authentic material								
Melting point	78 °C								
Specific optical rotation	$[\alpha]_D^{24} = +59.9^\circ$ (1 % in acetic acid)								
Purity (TLC)	> 99%								
TLC conditions	chloroform/methanol/toluene/H ₂ O 8/8/8/1 chloroform/methanol/acetic acid 90/8/2 toluene/dioxane/acetic acid 95/25/4 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB								
Assay (elemental analysis)	99.9% (Cth 62.64 %, Cfd 62.55 %)								
Water content (KF volumetric)	0.1%								
Latest update: October 24, 2008									