

Analytical Data Sheet

Lot number

0570939

not for drug use

Catalog Number	C-2315.0005
Product number	4001168.0005
Product	Z- D- Phe- OH
Molecular formula	C ₁₇ H ₁₇ NO ₄
Relative molecular mass	299.33

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 = 68.2 %</td> <td>C = 68.0 %</td> </tr> <tr> <td>H = 5.7 %</td> <td>H = 5.3 %</td> </tr> <tr> <td>N = 4.7 %</td> <td>N = 4.7 %</td> </tr> </table>	Theory	Found	C = 68.2 %	C = 68.0 %	H = 5.7 %	H = 5.3 %	N = 4.7 %	N = 4.7 %
Theory	Found								
C = 68.2 %	C = 68.0 %								
H = 5.7 %	H = 5.3 %								
N = 4.7 %	N = 4.7 %								
Identification (TLC)	complies with authentic material								
Melting point	88 °C								
Specific optical rotation	<p>$[\alpha]_D^{24} = -9.1^\circ$ (5 % EtOH)</p> <p>$[\alpha]_D^{24} = -33.1^\circ$ (1 % EtOH) (DCHA-Salt)</p>								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% Z-D-Phe-D-Phe-OH								
TLC conditions	chloroform/methanol/acetic acid 85/10/5 chloroform/methanol/benzene/H ₂ O 8/8/8/1 chloroform/ethylacetate/acetic acid 50/50/2 plate: silicagel 60 F ₂₅₄ (HPTLC plates) detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	99.6% (Cth 68.22 %, Cfd 67.97 %)								
Latest update: September 30, 2013									