

Analytical Data Sheet

Lot number

1023803

not for drug use

Catalog Number	C-1620.0025
Product number	4007071.0025
Product	Z- D- Gln- OH
Molecular formula	C ₁₃ H ₁₆ N ₂ O ₅
Relative molecular mass	280.28

Tests	Results
Appearance	White powder
Appearance of solution	Clear, colorless solution (50 mg/ml in methanol)
Melting point	130.5 °C
Specific optical rotation	$[\alpha]_D^{24} = + 6.20^\circ$ (2 % in ethanol)
Purity (TLC)	>99%
TLC conditions	Chloroform/methanol/toluene/H ₂ O 8/8/8/1 Chloroform/methanol/acetic acid(98-100%)/H ₂ O 45/13/1/2 Ethylacetate/pyridine/acetic acid/H ₂ O 60/20/6/11 Plate: silicagel 60 F ₂₅₄ Detected: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	92.8 % (Nth 9.99 %, Nfd 9.27 %)
Water content (KF volumetric)	0.8%
Residual organic solvents (GC)	7.3% Methanol
Latest update: May 04, 2009	Analytical Data Sheet Lot number 1023803