Analytical Data Sheet

Lot number

1019660

not for drug use

Catalog Number	**E–2295.0025**
Product number	**4000581.0025**
Product	**H– Pro– NH_2**
Molecular formula	$C_5H_{10}N_2O$
Relative molecular mass	114.15

Tests	Results
Appearance	slightly yellowish powder
Appearance of solution	clear, slightly yellowish solution (50 mg/ml in methanol)
Identification (elemental analysis)	Theory / Found C = 52.2 % / C = 52.0 % H = 8.9 % / H = 8.6 % N = 24.4 % / N = 24.1 % calc. x 0.05 H_2O (0.8 %)
Identification (TLC)	complies with authentic material
Melting point	98 °C
Specific optical rotation	$[\alpha]_D^{24}$ = – 103.6 ° (1 % in ethanol)
Purity (TLC)	> 99%
TLC conditions	n–butanol/acetic acid/H_2O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F_{254} detected by: UV, ninhydrin, TMB
Enantiomer content (GC)	0.1% H–D–Pro–NH_2
Other amino acids (GC)	< 0.3%
Assay (elemental analysis)	98.3% (Nth 24.54 %, Nfd 24.11 %)
Water content (KF volumetric)	0.8%