Analytical Data Sheet

Lot number

1047169

not for drug use

Catalog Number	**E-2300.0025**
Product number	**4000855.0025**
Product	**H- Pro- NH_2 · HCl**
Molecular formula	$C_5H_{10}N_2O$ · HCl
Relative molecular mass	150.61

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/ml in MeOH)
Identification (elemental analysis)	Theory / Found C = 39.9 % / C = 39.7 % H = 7.4 % / H = 7.4 % N = 18.6 % / N = 18.6 %
Identification (TLC)	complies with authentic material
Melting point	183.2%
Specific optical rotation	$[\alpha]_D^{24}$= - 65.1 ° (1 % in EtOH)
Purity (TLC)	> 99%
Related impurities (TLC)	< 0.1% H-Pro-OH
TLC conditions	n-butanol/acetic acid/H_2O 4/2/2 isopropanol/ammonia conc. 1/1 plate: silicagel 60 F_{254} detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	98.8% (Nth 18.60%, Nfd 18.37%)
Water content (KF volumetric)	0.2%
Chloride content (titration)	23.3% ($AgNO_3$)

Latest update: March 06, 2013