

Analytical Data Sheet

Lot number

1025544

not for drug use

Catalog Number	F-3615.0005
Product number	4014107.0005
Product	H- 2- Mercapto- His- OH
Molecular formula	C ₆ H ₉ N ₃ O ₂ S
Relative molecular mass	187.22

Tests	Results
Appearance	slightly yellow powder
Appearance of solution	clear, colorless solution (25 mg/5 mL in water)
Identification (TLC)	complies with authentic material
Specific optical rotation	$[\alpha]_D^{24} = -10.9^\circ$ (1% in 1M HCl)
Purity (TLC)	≥ 98%
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine
Assay (elemental analysis)	97.9% (Nth 22.44%, Nfd 21.96%)
Water content (KF volumetric)	0.6%
Latest update: July 29, 2009	

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