

Analytical Data Sheet

Lot number

1046812

not for drug use

Catalog Number	E-2010.1000
Product number	4030670.1000
Product	H- His- OH
Molecular formula	C₆H₉N₃O₂
Relative molecular mass	155.16

Tests	Results								
Appearance	white crystalline powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table border="0"> <tr> <td>Theory</td> <td>Found</td> </tr> <tr> <td>C = 46.5%</td> <td>C = 46.2%</td> </tr> <tr> <td>H = 5.9%</td> <td>H = 5.5%</td> </tr> <tr> <td>N = 27.1%</td> <td>N = 27.2%</td> </tr> </table>	Theory	Found	C = 46.5%	C = 46.2%	H = 5.9%	H = 5.5%	N = 27.1%	N = 27.2%
Theory	Found								
C = 46.5%	C = 46.2%								
H = 5.9%	H = 5.5%								
N = 27.1%	N = 27.2%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +12.1^\circ$ (5% in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 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% D-Enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	100.6% (Nth 27.08%, Nfd 27.25%)								
Water content (KF volumetric)	0.2%								
Latest update: February 11, 2013									