

Analytical Data Sheet

Lot number

1044166

not for drug use

Catalog Number	F-2330.0025
Product number	4030626.0025
Product	H- D- His- OH
Molecular formula	C ₆ H ₉ N ₃ O ₂
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 = 46.5%</td> </tr> <tr> <td>H = 5.9%</td> <td>H = 5.8%</td> </tr> <tr> <td>N = 27.1%</td> <td>N = 27.1%</td> </tr> </table>	Theory	Found	C = 46.5%	C = 46.5%	H = 5.9%	H = 5.8%	N = 27.1%	N = 27.1%
Theory	Found								
C = 46.5%	C = 46.5%								
H = 5.9%	H = 5.8%								
N = 27.1%	N = 27.1%								
Identification (TLC)	conforms with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -12.2^\circ$ (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% L-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	100.2% (Nth 27.08 %, Nfd 27.14 %)								
Water content (KF volumetric)	< 0.1%								
Latest update: August 16, 2012									