

Analytical Data Sheet

Lot number **1069603**
not for drug use

Catalog number **G-2310.0005**
Product number **4000307.0005**
Product **H- His- Leu- OH**
Molecular formula $C_{12}H_{20}N_4O_3$
Relative molecular mass 268.32

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in acetic acid 80%)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 53.7%</td> <td>C = 53.5%</td> </tr> <tr> <td>H = 7.5%</td> <td>H = 7.4%</td> </tr> <tr> <td>N = 20.9%</td> <td>N = 20.9%</td> </tr> </tbody> </table>	Theory	Found	C = 53.7%	C = 53.5%	H = 7.5%	H = 7.4%	N = 20.9%	N = 20.9%
Theory	Found								
C = 53.7%	C = 53.5%								
H = 7.5%	H = 7.4%								
N = 20.9%	N = 20.9%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +9.7^\circ$ (2% in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H ₂ O 4/2/2 chloroform/methanol/acetic acid 32% 5/3/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine								
Assay (elemental analysis)	100.3% (Nth 20.88%, Nfd 20.93%)								
Water content (KF volumetric)	0.3%								

Latest update: January 26, 2017

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