

## Analytical Data Sheet

Lot number **1070248**  
not for drug use

Catalog number **F-2330.0005**  
Product number **4030626.0005**  
Product **H- D- His- OH**  
Molecular formula **C<sub>6</sub>H<sub>9</sub>N<sub>3</sub>O<sub>2</sub>**  
Relative molecular mass **155.16**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in 1N HCl)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 45.6 %</td> <td>C = 45.2 %</td> </tr> <tr> <td>H = 5.9 %</td> <td>H = 5.6 %</td> </tr> <tr> <td>N = 26.6 %</td> <td>N = 26.3 %</td> </tr> </tbody> </table> <p>calc. as 0.15 H<sub>2</sub>O (1.1 %)</p>	Theory	Found	C = 45.6 %	C = 45.2 %	H = 5.9 %	H = 5.6 %	N = 26.6 %	N = 26.3 %
Theory	Found								
C = 45.6 %	C = 45.2 %								
H = 5.9 %	H = 5.6 %								
N = 26.6 %	N = 26.3 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = -11.4^\circ$ (5 % in 1N HCl)								
Purity (TLC)	> 99%								
TLC conditions	n-butanol/acetic acid/H <sub>2</sub> O 4/2/2 isopropanol/ammonia conc. 1/1 methanol/chloroform/ammonia 17% 2/2/1 plate: silicagel 60 F <sub>254</sub> detected by: UV, ninhydrin, TMB								
Enantiomer content (GC)	0.2% L-enantiomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	96.8% (Nth 27.08%, Nfd 26.20%)								
Water content (KF volumetric)	0.7%								

Latest update: February 15, 2017

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