

Analytical Data Sheet

Lot number **1064331**
not for drug use

Catalog number **A-1765.0025**
Product number **4000667.0025**
Product **Boc- His- OH**
Molecular formula $C_{11}H_{17}N_3O_4$
Relative molecular mass 255.27

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50 mg/mL in methanol)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 51.8%</td> <td>C = 51.7%</td> </tr> <tr> <td>H = 6.7%</td> <td>H = 6.7%</td> </tr> <tr> <td>N = 16.5%</td> <td>N = 16.6%</td> </tr> </tbody> </table>	Theory	Found	C = 51.8%	C = 51.7%	H = 6.7%	H = 6.7%	N = 16.5%	N = 16.6%
Theory	Found								
C = 51.8%	C = 51.7%								
H = 6.7%	H = 6.7%								
N = 16.5%	N = 16.6%								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +13.7^\circ$ (1 % in H ₂ O)								
Purity (TLC)	> 99%								
Related impurities (TLC)	< 0.1% H-His-OH								
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, TMB								
Enantiomer content (GC)	0.1% D-Isomer								
Other amino acids (GC)	< 0.3%								
Assay (elemental analysis)	99.3% (Nth 16.46%, Nfd 16.35%)								
Water content (KF volumetric)	0.5%								

Latest update: February 17, 2016

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