

Analytical Data Sheet

Lot number **1000012680**
not for drug use

Catalog number **E-3665.1000**
Product number **4041045.1000**
Product **H- His(1- Me) - OH**
Molecular formula **C₇H₁₁N₃O₂**
Relative molecular mass **169.18**

Tests	Results								
Appearance	white powder								
Appearance of solution	clear, colorless solution (50mg/ml in 80% AcOH)								
Identification (elemental analysis)	<table> <thead> <tr> <th>Theory</th> <th>Found</th> </tr> </thead> <tbody> <tr> <td>C = 49.7 %</td> <td>C = 49.7 %</td> </tr> <tr> <td>H = 6.6 %</td> <td>H = 6.3 %</td> </tr> <tr> <td>N = 24.8 %</td> <td>N = 24.6 %</td> </tr> </tbody> </table>	Theory	Found	C = 49.7 %	C = 49.7 %	H = 6.6 %	H = 6.3 %	N = 24.8 %	N = 24.6 %
Theory	Found								
C = 49.7 %	C = 49.7 %								
H = 6.6 %	H = 6.3 %								
N = 24.8 %	N = 24.6 %								
Identification (TLC)	complies with authentic material								
Specific optical rotation	$[\alpha]_D^{24} = +14.7^\circ$ (1.9 % 1 N 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, chlorine-tolidine								
Assay (elemental analysis)	99.0% (Nth 24.84 %, Nfd 24.59 %)								
Assay (titration)	98.4% (HClO ₄)								
Water content (KF volumetric)	0.3%								

Latest update: February 21, 2019

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