

Analytical Data Sheet

Lot number **1072267**
not for drug use

Catalog number **E-2020.0100**
Product number **4000230.0100**
Product **H- His- OMe · 2 HCl**
Molecular formula **C₇H₁₁N₃O₂ · 2 HCl**
Relative molecular mass **242.11**

Tests	Results
Appearance	white powder
Appearance of solution	clear, colorless solution (50 mg/mL in acetic acid 80%)
Identification (elemental analysis)	Theory Found C = 34.7% C = 34.9% H = 5.4% H = 5.4% N = 17.4% N = 17.2%
Identification (TLC)	complies with authentic material
Melting point	196 °C
Specific optical rotation	$[\alpha]_D^{24} = + 15.4^\circ$ (1 % in methanol)
Purity (TLC)	> 98%
Related impurities (TLC)	< 2% H-His-OH
TLC conditions	2-butanol/ammonia 3% 100/44 methanol/chloroform/ammonia 17% 2/2/1 ethylacetate/pyridine/acetic acid/H ₂ O 60/60/12/36 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB
Enantiomer content (chiral chromatography)	< 0.1% D-enantiomer
Assay (elemental analysis)	99.3% (Nth 17.36%, Nfd 17.235%)
Water content (KF coulometric)	< 0.5%
Chloride content (titration)	29.4% (AgNO ₃) 97.5% of theoretical (Cl ⁻ th = 30.11%)