

Analytical Data Sheet

Lot number **1000003558**
not for drug use

Catalog number **F-3615.0001**
Product number **4014107.0001**
Product **H- 2- Mercapto- His- OH**
Molecular formula **C₆H₉N₃O₂S**
Relative molecular mass **187.22**

| Tests | Results |
|-------------------------------|---|
| Appearance | slightly yellow powder |
| Appearance of solution | clear, colorless solution (25 mg/5 mL in water) |
| Identification (TLC) | complies with authentic material |
| Specific optical rotation | $[\alpha]_D^{24} = -10.9^\circ$ (1% in 1M HCl) |
| Purity (TLC) | ≥ 98% |
| TLC conditions | n-butanol/acetic acid/H ₂ O 4/2/2 methanol/chloroform/ammonia 17% 2/2/1 chloroform/methanol/acetic acid 32% 5/3/1 plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, chlorine-tolidine |
| Assay (elemental analysis) | 97.9% (Nth 22.44%, Nfd 21.96%) |
| Water content (KF volumetric) | 0.6% |

Latest update: August 03, 2018

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