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Certificate of Analysis

Catalogue Number	09483
Product	1-Methyl-L-Histidine
Lot Number	000127-0568355 L-His(1-Me)-OH L-His(N ^{im} -Me)-OH
CAS Number	332-80-9
Molecular Formula	C ₇ H ₁₁ N ₃ O ₂
Molecular Weight	169.18

Appearance	White powder
Solubility	Clear colorless solution (50 mg/mL in 80% acetic acid)
Elemental Analysis (Found)	C = 49.7%, H = 6.3%, N = 24.6%
Water Content (Karl Fisher)	0.3%
TLC System	n-Butanol/Acetic acid/H ₂ O (4:2:2) Methanol/Chloroform/Ammonia 17% (2:2:1) Isopropanol/Ammonia conc. (1:1) Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-toluidine Identification: Conforms to standard
Optical Rotation	[α] _D ²⁴ = +14.7° (C=1.9% in 1 N HCl)
Assay	Elemental analysis: 99.0% (Nth 24.84%, Nfd 24.59%)
Assay by titration	98.4% (HClO ₄)
Purity by TLC	> 99%
Storage	Store at 0-8 °C

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Remarks

See material safety data sheet for additional information

For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier



Bala Kumar
Quality Control Manager