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Certificate of Analysis

| | |
|------------------------------------|---|
| Catalogue Number | 03008 |
| Lot Number | 000127-1034528 |
| Product | Boc-His(Z)-OH Boc-N ^{im} -Z-L-histidine |
| CAS Number | 50305-43-6 |
| Molecular Formula | C ₁₉ H ₂₃ N ₃ O ₆ |
| Molecular Weight | 389.41 |
| <hr/> | |
| Appearance | White crystals |
| Solubility | Clear, colorless solution (50 mg/mL in Dichloromethane) |
| Water Content (Karl Fisher) | 0.5% |
| TLC System | Toluene/Dioxane/Acetic acid (95:25:4) Chloroform/Methanol/Toluene/H ₂ O (8:8:8:1) Chloroform/Methanol/Acetic acid (85:10:5) Plate: silicagel 60 F ₂₅₄ Detected by: UV, ninhydrin, chlorine-tolidine |
| Optical Rotation | [α] ₃₆₅ ²⁴ = +20.3° (C=1 in Dioxane, corrected for peptide content) |
| Residual Solvents | 15.9% Benzene (GC) |
| Related Substances | Impurities (TLC): Boc-His-OH: < 3%, H-His-OH: < 0.25%, Total other impurities: < 1% |
| Assay by titration | 85.1% (TBAH) |
| Purity by TLC | Complies with authentic material |
| Storage | Store at ≤ -4 °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