



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

| | |
|------------------------------------|--|
| Catalogue Number | 04-592 |
| Product | <i>N</i>^α-Boc-<i>N</i>tm-benzyl-L-histidine |
| Lot Number | 000127-1073861 Boc-L-His(Bzl)-OH |
| CAS Number | 20898-44-6 |
| Molecular Formula | C ₁₈ H ₂₃ N ₃ O ₄ |
| Molecular Weight | 345.4 |
| <hr/> | |
| Appearance | White powder |
| Appearance of Solution | Clear, colorless solution (50 mg/ml in methanol) |
| Melting Point | 180 °C |
| Water Content (Karl Fisher) | 0.1% |
| TLC System | Chloroform/ methanol/ acetic acid 32% 5/3/1 n-butanol/ acetic acid/ water 4/2/2 Ethylacetate/ pyridine/ acetic acid/ water 60/20/6/11 Plate: silicagel 60 F ₂₅₄ detected by: UV, ninhydrin, TMB |
| Optical Rotation | [α] _D ²⁴ = + 23.2 ° (C=1, in MeOH) |
| Assay | 99.8% (Nfd 12.15% by elemental analysis) |
| D-Enantiomer | 0.2% |
| Purity by HPLC | 99.9% (TFA) |
| Purity by TLC | > 99% |
| Storage | Store at 0-8 °C |

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