



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

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|--|---|
| Catalog Number | 04-327 |
| Product Name | H-Asn-OtBu•HCl L-Asparagine t-butyl ester hydrochloride |
| Lot Number | 546647 |
| CAS Registry Number | 63094-81-5 |
| Molecular Formula | C ₈ H ₁₆ N ₂ O ₃ •HCl |
| Molecular Weight | 224.7 |
| Appearance | White Powder |
| Solubility | Clear, colorless solution (50mg/ml in methanol) |
| Optical Specific Rotation (α_D^{24}) | +11.4° (2%, in methanol) |
| Melting Point | 115°C |
| CHN-Analysis | calc. as 0.6 H ₂ O x 1 HCl |
| Elemental Analysis (Found) | C 41.12%, H 7.68%, N 12.02% |
| Elemental Analysis (theory) | C 40.99%, H 7.81%, N 11.95% |
| Assay (TLC) | Purity by TLC >99% |
| Chloroform/Methanol/Acetic acid 32% 5/3/1(v/v/v) | detected by: UV, Ninhydrin, Chlorine-tolidine |
| n-Butanol/Acetic acid/H₂O 4/2/2 (v/v/v) | |
| Chloroform/Methanol/Acetic acid/H₂O 60/45/14/6 (v/v/v/v) | |
| Ethylacetate/Pyridine/Acetic acid /H₂O 6/5/1/3 (v/v/v/v) | |
| Plate Silicagel 60 F₂₅₄ | |
| Water content | 4.8% |
| Chlrde content | 15.0% |
| Storage | Store at -0°C. |