



INDOFINE Chemical Company, Inc.

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Certificate of Analysis

| | |
|-------------------|---|
| Catalogue Number | 04-871 |
| Lot Number | 111207-31500 |
| Product | Boc-L-serine Boc-L-Ser-OH Boc-L- β -Hydroxyalanine |
| CAS Number | 3262-72-4 |
| Molecular Formula | C ₈ H ₁₅ NO ₅ |
| Molecular Weight | 205.22 |

| | |
|-----------------------------|--|
| Appearance | White powder |
| Solubility | Clear solution (0.3g in 2mL DMF) |
| Melting Point | 90.6-91.6 °C |
| Water Content (Karl Fisher) | 0.63% |
| Optical Rotation | $[\alpha]_D^{20} = -8.3^\circ$ (C=3 in H ₂ O) |
| Infrared Spectrum | Conforms to structure |
| Analysis by Mass Spectra | Conforms to standard |
| Loss on Drying | 0.60% (40 °C, 2h) |
| ¹ H NMR | Conforms to structure |
| D-Enantiomer | 0.0168% |
| Purity by HPLC | 99.0% |
| Storage | Store at 0-8°C |