

# **INDOFINE Chemical Company, Inc.**

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## Certificate of Analysis

|                               |  |
|-------------------------------|--|
| Catalog Number                | 04-359   |
| Product Name                  | H-D-Asp(OtBu)-OH • H <sub>2</sub> O<br>D-Aspartic acid β-t-butyl ester hydrate |
| Lot Number                    | 18414  |
| Molecular Formula             | C <sub>8</sub> H <sub>15</sub> NO <sub>4</sub> • H <sub>2</sub> O              |
| Molecular Weight              | 207.2  |
| Appearance                    | White powder   |
| Melting Point                 | Dec. >195 °C   |
| Optical Rotation (NaD, 20 °C) | - 8.4° (C=1 in water)  |
| Water (KF)                    | 5.4%   |
| Free Amino Acids (ASA)        | 0.2% Asp   |
| Other Enantiomer              | 0.4%   |
| Purity (Amino acid analysis)  | > 99%  |
| Amino Acid Analyzer           | Biotronik LC 3000  |
| Method                        | Ninhydrin – post column derivatisation   |
| Program                       | Standard program for detection of 42 amino acids                               |
| TLC-System                    | n-Butanol:H <sub>2</sub> O:AcOH 6:2:2  |
| TLC-Concentration             | 25 mg/mL   |
| Comments                      | Trace impurities.  |
| Storage                       | Store at -0 °C.  |

Prepared by:  
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