

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Specification Sheet

Product Name: **L-Tryptophan**  
 Specifications & Purity: **UltraBio™, ≥99.5%(NT)**  
 SKU #: **L755707**

| Parameter  | Limit Values                          |
|--|---------------------------------------|
| Appearance(L755707)                                  | Colorless to White Powder or Crystals |
| Assay(Titration by HClO <sub>4</sub> )               | 99.5-100.5 (%)                        |
| specific rotation [α] <sub>20</sub> /D(C=1 in water) | -32.5~-30.5 (°)                       |
| Melting point(Decomposition)                         | 280-290 (°C)                          |
| Loss on drying                                       | 0-0.1 (%)                             |
| Sulphated ash  | 0-0.1 (%)                             |
| Infrared spectrum                                    | Conforms to Structure                 |
| Aluminum(Al)   | 0-5 (ppm)                             |
| Barium(Ba)   | 0-5 (ppm)                             |
| Calcium(Ca)  | 0-10 (ppm)                            |
| Cadmium(Cd)  | 0-5 (ppm)                             |
| Cobalt (Co)  | 0-5 (ppm)                             |
| Chromium(Cr)   | 0-5 (ppm)                             |
| Copper(Cu)   | 0-5 (ppm)                             |
| Iron(Fe)   | 0-5 (ppm)                             |
| Potassium(K)   | 0-50 (ppm)                            |
| Lithium(Li)  | 0-5 (ppm)                             |
| Magnesium (Mg)                                       | 0-5 (ppm)                             |
| Manganese(Mn)  | 0-5 (ppm)                             |
| Molybdenum(Mo)                                       | 0-5 (ppm)                             |
| Sodium(Na)   | 0-50 (ppm)                            |
| Nickel(Ni)   | 0-5 (ppm)                             |
| Lead(Pb)   | 0-5 (ppm)                             |
| Strontium(Sr)  | 0-5 (ppm)                             |
| Zinc(Zn)   | 0-5 (ppm)                             |
| Arsenic(As)(MHS-AAS)                                 | 0-0.1 (ppm)                           |
| Total sulfur as SO <sub>4</sub> (ICP)                | 0-50 (ppm)                            |
| Chloride (Cl <sup>-</sup> )                          | 0-50 (ppm)                            |
| Solution(3.065g in 30ml in 0.5M HCl)                 | Colorless to faintly yellow clear     |
| Cut-off(3.065 g in 30 ml in 0.5M HCl)                | ≤326 (nm)                             |
| Bismuth(Bi)  | 0-5 (ppm)                             |