



# NEWAY SINOPHC TECH. LIMITED

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## Certificate of Analysis (COA)

**Product Name: L-Asparagine (Food Grade)**

### Product Information

| Item                 | Details   |
|----------------------|---|
| Product Number       | LAN-FOOD-20260225   |
| Batch Number         | LAN-SH2026022501  |
| Brand                | SIGALD  |
| CAS Number           | 70-47-3   |
| MDL Number           | MFCD00008056  |
| Formula              | C <sub>4</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> |
| Formula Weight       | 132.12 g/mol  |
| Quality Release Date | 25 FEB 2026   |

### Test Results (Compliant with Food Additive Standards)

| Test   | Specification (Food Grade)                       | Result                   | Unit  | Test Method                                   |
|--|--|--------------------------|-------|---|
| Appearance                                       | White crystalline powder, free-flowing, odorless | White crystalline powder | -     | Visual & Olfactory Inspection                 |
| Assay (L-Asparagine)                             | ≥98.5%   | 99.6%                    | %     | High Performance Liquid Chromatography (HPLC) |
| Specific Rotation [α] <sub>20</sub> <sup>D</sup> | +33.0° ~ +35.0° (H <sub>2</sub> O)               | +34.3°                   | °     | Polarimetry                                   |
| Moisture Content                                 | ≤0.5%  | 0.19%                    | %     | Karl Fischer Titration                        |
| pH Value (1% aqueous, 25°C)                      | 5.0~6.5  | 5.8                      | -     | Digital pH Meter                              |
| Residue on Ignition                              | ≤0.1%  | 0.02%                    | %     | Gravimetric Method (600±50°C)                 |
| Heavy Metals (as Pb)                             | ≤5 ppm   | 0.4 ppm                  | ppm   | Atomic Absorption Spectrometry (AAS)          |
| Heavy Metals (As)                                | ≤1 ppm   | 0.09 ppm                 | ppm   | Atomic Fluorescence Spectrometry (AFS)        |
| Cadmium (Cd)                                     | ≤0.1 ppm   | <0.01 ppm                | ppm   | AAS   |
| Mercury (Hg)                                     | ≤0.01 ppm  | <0.01 ppm                | ppm   | Cold Vapor Atomic Absorption                  |
| Chloride (as Cl <sup>-</sup> )                   | ≤0.02%   | 0.005%                   | %     | Volumetric Method (AgNO <sub>3</sub> )        |
| Sulfate (as SO <sub>4</sub> <sup>2-</sup> )      | ≤0.02%   | 0.004%                   | %     | Turbidimetric Method                          |
| Total Bacterial Count                            | ≤100 CFU/g                                       | 8 CFU/g                  | CFU/g | Plate Count Method                            |
| E. coli  | Negative   | Negative                 | -     | Food Microbial Detection Method               |
| Salmonella                                       | Negative in 25g                                  | Negative                 | -     | Food Microbial Detection Method               |

### Certification

This batch of **Food Grade L-Asparagine** has been tested in accordance with national food additive standards and Codex Alimentarius Commission specifications. It meets all specified requirements for food additive use and is qualified for release.

**Date:** 25 FEB 2026