

**Product Name:** L-Glutamine, ≥98.5%, Ultrapure  
**Catalog Number:** J16285.22

---

**CAS Number:** 56-85-9  
**IUPAC Name:** (2S)-2-amino-4-carbamoylbutanoic acid  
**Molecular Formula:** C<sub>5</sub>H<sub>10</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight:** 146.15  
**InChI Key:** ZDXPYRJPNDTMRX-VKHKMYHEASA-N  
**SMILES:** N[C@@H](CCC(N)=O)C(O)=O  
**Synonym:** L-glutamine glutamine express (genetic evolutionary nutrition) stimulina saforis glavamin  
 2-aminoglutaramic acid earthlink science glutamine chews chocolate (amerifit)  
 levoglutamide Gln L-glutaminsaeure-5-amid

## Product Specification

**Form:** White crystalline powder  
**Residue on ignition:** ≤ 0.1%  
**Loss on Drying:** ≤ 0.2%  
**Optical Rotation:** 6.3° to 7.3° (c=4 in H<sub>2</sub>O)  
**Chloride content:** ≤ 0.021%  
**Impurity content:** Sulfate (SO<sub>4</sub>): ≤ 0.028%  
**Trace Metal:** Arsenic (As): ≤ 3 ppm  
**Trace Metal:** Heavy Metals (Pb): ≤ 10 ppm  
**Trace Metal:** Iron (Fe): ≤ 10 ppm  
**Assay (unspecified):** ≥98.5%  
**Identification (FTIR):** Conforms

---

**Date Of Print:** 05/07/2025

Product Specifications are subject to amendment and may change over time. Data contained is accurate as of the date printed.