

## L-Glutamic Acid Solution (0.1 mol/L, Sterile)

Cat. No.: L1509607 | Pack size: 100 mL | Storage: Store at -20°C

### Overview

L-Glutamic acid has a molecular weight of 147.13, a molecular formula of  $C_5H_9NO_4$  and a CAS number of 56-86-0. It is an acidic amino acid with two carboxyl groups in its molecule, and its chemical name is  $\alpha$ -aminoglutaric acid. Discovered by Ritthausen in 1856, L-glutamic acid appears as colorless crystals with a savory taste. It is slightly soluble in cold water, readily soluble in hot water, and soluble in hydrochloric acid solution, with an isoelectric point of 3.22.

L-glutamic acid is abundant in cereal proteins and also present in high concentrations in animal brains. It plays a crucial role in protein metabolism in organisms and participates in numerous important chemical reactions in animals, plants and microorganisms. It serves as a raw material for the production of monosodium glutamate (MSG) and fragrances, and can also be used as an additive in culture media for mammalian cell culture, boasting extremely extensive applications.

The L-Glutamic Acid Solution (0.1 mol/L) is mainly composed of L-glutamic acid and deionized water, and undergoes filtration sterilization. This reagent is for research use only (RUO) and is not suitable for clinical diagnosis or any other purposes.

### Operating Procedures (For Reference Only)

1. Operate in accordance with the specific requirements of the experiment.
2. Generally, it is used at a ratio of culture medium: L-glutamic acid solution=100:1.

### Precautions

1. Avoid repeated freeze-thaw cycles and ensure sterile operation.
2. Please use the reagent as soon as possible after opening to prevent affecting subsequent experimental results.
3. For your safety and health, wear a lab coat and disposable gloves during operation.

### Specifications

Attribute	Value
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Attribute	Value
Synonyms	L-Glutamic Acid Solution
Specifications & Purity	sterile-filtered, BioReagent, for cell culture, 0.1 mol/L
Stability And Storage	Store at -20°C long term (12 months).
Storage Conditions	Store at -20°C
Shipped In	Ice chest + Ice pads This product requires cold chain shipping. Ground and other economy services are not available.

## Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

<p>NORTH AMERICAN SALES, SUPPORT &amp; GENERAL INQUIRIES</p> <p><b>Aladdin Scientific Corporation</b></p> <p>14078 Meridian Parkway, Riverside, CA 92518, USA</p> <p><b>Phone:</b> 1-833-552-7181</p> <p><b>Sales:</b> sales@aladdinsci.com</p> <p><b>Customer Service:</b> custserv@aladdinsci.com</p>	<p>EU SALES, LOGISTICS &amp; LOCALIZED SUPPORT</p> <p><b>Aladdin Biochem Deutschland GmbH</b></p> <p>Westring 2, 33142 Büren, Germany</p> <p><b>Phone:</b> +02951 9383958</p> <p><b>Support:</b> support.eu@aladdinsci.com</p>
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## Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the kit for their specific application.



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