




Product Sheet


(ATCC® 30-2220™)

Please read this FIRST



Storage Temp.  
**Store Penicillin-  
Streptomycin-  
Glutamine  
Solution frozen at  
-20°C or colder.**

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Biosafety Level  
**1**

## Description

### Product Description:

Contains penicillin (10,000 I.U./mL), streptomycin (10,000 µg/mL), and L-glutamine (200 mM) in one convenient solution. Allows for one-step addition of these cell culture supplements to medium thereby reducing risks from contamination. Related products: L-Glutamine Solution, ATCC 30-2214; Penicillin-Streptomycin Solution, ATCC 30-2300

Penicillin and streptomycin reduce the chance of microbial contamination in cell culture. L-glutamine is an essential amino acid required by virtually all mammalian and insect cells grown in culture. However, it is more labile than other amino acids; the rate and extent of L-glutamine degradation depends upon the storage temperature, age, and pH of the cell culture medium.

The combination of these three reagents in one solution provides a convenient means to supplement your cell culture medium in less time and with less risk from contamination than by adding them separately.

All cell culture media are formulated to contain appropriate amounts of L-glutamine to support cell growth well beyond the expiration date of the media. However, if L-glutamine is suspected to be a limiting factor during cell culture, a simple test of 'spiking' the medium with a small amount of Penicillin-Streptomycin-Glutamine Solution will determine whether or not more is required.

**Volume:** 100 mL

### ATCC Warranty

The viability of ATCC® products is warranted for 30 days from the date of shipment, and is valid only if the product is stored and cultured according to the information included on this product information sheet. ATCC lists the media formulation that has been found to be effective for this strain. While other, unspecified media may also produce satisfactory results, a change in media or the absence of an additive from the ATCC recommended media may affect recovery, growth and/or function of this strain. If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.

### Disclaimers

This product is intended for laboratory research purposes only. It is not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this product sheet, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

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Please see the enclosed Material Transfer Agreement (MTA) for further details regarding the use of this product. The MTA is also available on our Web site at [www.atcc.org](http://www.atcc.org)

Additional information on this culture is available on the ATCC web site at [www.atcc.org](http://www.atcc.org).

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