ATCC

Product Sheet

LB Broth (ATCC® 60-2100™)

Please read this FIRST

Storage Temp.
15°C to 30°C (ambient temperature)

Biosafety Level
*

Description

Product Description: Luria-Bertani medium for propagation of bacteria for molecular biology applications. Sterile liquid is ready to use.

Formulation:
NaCl 10 g/L
Casein Peptone 10 g/L
Yeastolate 5 g/L
Volume: 1 liter

Directions for Use

Antibiotic Usage for Selection of Resistant *E. coli* Cells

	Stock Solutions			Working Concentrations mg/ml
ATCC No.	**Antibiotic**	**Concentration**	**Storage Temp.**	
60-2000	Ampicillin	10 mg/mL in water	-20°C	20-125
60-2003	Chloramphenicol	10 mg/mL in ethanol	-20°C	25-170
60-2001	Kanamycin	10 mg/mL in water	-20°C	10-50
60-2002	Tetracycline	5-10 mg/mL in 50% ethanol	-20°C	10-50

- Store all antibiotic stock solutions in the dark at -20°C.
- Tetracycline must always be wrapped in foil and stored in the dark whether it is in stock solution, in broth, or in agar.
- Stock solutions in water must be filter sterilized through a 0.22 µm filter. Antibiotics dissolved in ethanol need not be sterilized.
- Do not use expired antibiotics to make stock solutions, as they may be labile and may result in inconsistent results.
- Add antibiotics to liquid medium immediately prior to use from properly stored sterile stock solutions.
- Lower concentrations are suitable for the selection of cells containing low copy number plasmids, higher concentrations for high copy number plasmids.
- Agar medium should be cooled to 50°C or lower before the addition of heat-sensitive antibiotics and nutrients.
- Plates should be stored upside down at 4°C in the dark (foil wrapped) for no longer than three months due to degradation of antibiotics.
- Magnesium is an antagonist to tetracycline; use media without magnesium salts when working with bacteria that are tetracycline resistant.

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 If an alternative medium formulation is used, the ATCC warranty for viability is no longer valid.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.

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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

Additional information on this culture is available on the ATCC web site at www.atcc.org.

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