



Dehydrated Culture Media  
Instructions for Use

## LURIA AGAR (MILLER'S LB AGAR) (M179) Dehydrated Culture Media

**USE:** Luria Agar is used in molecular genetic studies.

**DESCRIPTION:** The inclusion of casein peptone and yeast extract supply essential growth factors, such as nitrogen, carbon, sulfur, minerals, and vitamins. Sodium chloride provides essential electrolytes. Agar is used as a solidification agent. LB Agar, Miller contains 10 g/L of Sodium Chloride, different from the levels in the Lennox formulations. This allows researchers to select optimal salt concentrations for a specific strain.

### FORMULA:

Pancreatic Digest of Casein .....	10.0 g/L
Yeast Extract .....	5.0 g/L
Sodium Chloride .....	10.0 g/L
Agar .....	15.0 g/L
Total .....	40.1 g/L

Note: Medium may be adjusted and/or supplemented as required to meet performance criteria.

**Final pH:** 7.3 ± 0.2 at 25°C

### PHYSICAL APPEARANCE:

Dehydrated Appearance: Light beige, free-flowing, homogeneous.

Prepared: Very light amber, clear to very slightly opalescent.

**PROCEDURE:** Mix 40.1 grams of the medium in one liter of purified water. Autoclave at 121°C for 15 minutes.

**EXPECTED RESULTS:** Cultural response after 18-24 hours at 35°C.

Microorganism	CFU	Growth
<i>E. coli</i> ATCC™ 25922	10 <sup>2</sup> 3x10 <sup>2</sup>	+
<i>E. coli</i> ATCC™ 8739	10 <sup>2</sup> 3x10 <sup>2</sup>	+
<i>E. coli</i> ATCC™ 43888	10 <sup>2</sup> 3x10 <sup>2</sup>	+

**STORAGE:** Store the product at 2-30°C protected from moisture for up to the expiration date.

**LIMITATIONS:** For laboratory use only. The dehydrated medium should be discarded if there are any changes in the color or if it is no longer free flowing.

**SIZES AVAILABLE:** 40 g (1L pre-weighed), 500 g, 2 kg, 10 kg, 50 kg

**PACKAGING:** Additional configurations are available upon request.

### REFERENCES:

1. Luria and Burrous. 1955. J. Bacteriol. 74:461.
2. Luria, Adams and Ting. 1960. Virology 12:348.
3. Davis, R.W., Bolsetin, D., and Roth, J.R., Advanced Bacterial Genetics, Cold Spring Harbor Laboratory, 1980.
4. Miller, J.H., Experiments in Molecular Genetics, Cold Spring Harbor, 1972.
5. Lennox. 1955. Virology 1:190-206.

Millennium LifeSciences, Inc.  
CultureMediaConcepts®  
970 E. Orangethorpe Ave, Unit A  
Anaheim, CA 92801  
TEL: (714) 773-1726  
FAX: (714) 773-1793