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## LB (Luria-Bertani) liquid medium

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**Protocol status:** Working

**We use this protocol and it's working**

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## Abstract

This protocol describes how to make 1 L of Luria-Bertani liquid medium (also known as LB broth) for the culturing of bacteria.

## Guidelines

LB broth can be stored at room temperature once autoclaved and kept for up to 6 months.

If your broth becomes cloudy it has become contaminated and is no longer viable. Contaminated LB broth must be disinfected (i.e. by adding Virkon at 2% final concentration) and then autoclaved before disposal.

## Materials

### MATERIALS

⊗ LB broth, Miller **Thermo Fisher Scientific Catalog #BP1426-500**

⊗ Virkon powder **VWR International (Avantor) Catalog #148-0201**

## Troubleshooting

## Safety warnings

! Read appropriate SDS for LB broth, Miller and Virkon before use.

Bottle can be extremely hot immediately following autoclave. Use thermal gloves for handling.



- 1 Add 25 grams of LB broth, Miller per litre of distilled H<sub>2</sub>O.
- 2 Mix well by inverting bottle several times until powder dissolved.
- 3 Sterilize by autoclaving for 20 min at 15 psi (1.05 kg/cm<sup>2</sup>) on liquid cycle.

**Note**

Once sterilized only open and use LB broth within a laminar flow hood to prevent contamination.

- 4 Allow LB broth to cool to room temperature before use.