

# LB (Luria-Bertani) liquid medium

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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.

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## 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

LB broth, Miller [BP1426-500](#) by [Thermo Fisher Scientific](#)

Virkon powder [148-0201](#) by [VWR international Ltd](#)

## Protocol

### Step 1.

Add 25 grams of LB broth, Miller per litre of distilled H<sub>2</sub>O.

### Step 2.

Mix well by inverting bottle several times until powder dissolved.

### Step 3.

Sterilize by autoclaving for 20 min at 15 psi (1.05 kg/cm<sup>2</sup>) on liquid cycle.

## NOTES

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

#### **Step 4.**

Allow LB broth to cool to room temperature before use.

#### **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.