



Making Luria Broth (LB)

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ABSTRACT

Luria Broth (LB) is a nutrient-rich liquid media that is used to grow bacterial cultures. Luria Broth consists of Tryptone, Yeast extract and Sodium Chloride mixed into distilled water.

PROTOCOL STATUS

Working

We use this protocol in our group and it is working

GUIDELINES

Equipment needed:

- 500 mL or 1-liter bottle
- graduated cylinder (100mL or greater)
- scale for weighing
- Autoclave
- autoclave gloves

MATERIALS

NAME ▾	CATALOG # ▾	VENDOR ▾
 Distilled Water		Contributed by users
 Luria broth powder		Contributed by users

SAFETY WARNINGS

The LB powder is very fine so handle it slowly and with care. The dust can get all over the bench and the powder may irritate your lungs if inhaled.

BEFORE STARTING

Give yourself about 2.5 hours to finish making the sterilized, ready-to-use LB broth. Making the LB broth doesn't take long, but the autoclave use can take up to 2.5 hours.

- 1 Read the instructions on the LB container to figure out how many grams per liter are needed to make liquid media.
- 2 Take the sterile spoon and spoon LB onto weigh tray. The LB powder is very fine so handle it slowly and with care. The dust can get all over the bench and the powder may irritate your lungs if inhaled.

NOTE

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- 3 Pinch tray corners and carefully pour the powder into bottle.

- 4 Measure 100 mL (or desired volume of LB broth) of distilled water in a graduated cylinder. Add the water to the bottle and close it.
- 5 Shake media bottle vigorously. Loosen the cap so that it is almost falling off.
- 6 Secure it with a piece of autoclave tape and label it with your name, date, and "LB broth" on non-autoclave tape and stick to the front of the bottle.
- 7 Put something at the bottom of autoclave basket so you don't submerge your autoclave bottles.
- 8 Place in autoclave basket. Autoclave when ready. See autoclave instructions.
- 9 When autoclave is done remove from autoclave per autoclave instructions. Twist cap closed to seal LB. Place in autoclaved media bin with label, date, name.



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