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LB Media

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Taken from Benchling Protocol

Protocol status: Working
We use this protocol in our group and it is working, though open to further improvement/modification.

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Abstract

LB (Luria-Bertani) media is commonly used for bacterial culture. We use it for overnight cultures after transformations.

Materials

MATERIALS

Yeast Extract **Catalog #**Y1625

Sodium Chloride **Catalog #**PubChem CID: 5234

Tryptone **Fisher Scientific Catalog #**BP1421-500

- 1 Liter Glass Bottle
- Autoclave
- Stirring plate and magnetic stirrer

Before start

This protocol creates 1L of media.

Creating the Broth

1 Put a stir bar into a 1L glass bottle and fill the glass bottle with 1L of DI water (using a graduated cylinder). Mark the level of the water with a thin Sharpie or label tape. Pour out ~50mL of the water. 2m

> Note
>
> We do this step because QSing the media in a graduated cylinder gets messy - it's often difficult to transfer the solute back and forth.

2 In a large glass bottle (at least 1L), add the following: 10m

Component	*Amount*
Deoinized Water	950 mL
Tryptone	10 g
Yeast Extract	5 g
NaCl	10 g

(You do not have to add the exact amount of water, just make sure it is close to 950mL).

3 Shake or stir to dissolve all the solutes. 20m

4 Optional: We have never done this step, but it is recommended by the Sambrook Molecular Cloning manual. 10m

Adjust the pH of the solution to 7.0 using 5M NaOH (~0.2mL).

5 QS the solution to the mark you made in Step 1 (1L) using DI water. 1m

Sterlizing the Broth

6 Autoclave bottle follwing Autoclave protocol on the liquid cycle. Choose the appropriate cycle for the amount of liquid you have. Make sure the bottle cap is on loosely 1h

7 Let bottle cool on the lab bench with loose cap 30m

8 Keep bottle in the cold room for storage, with the cap tightly closed. Make sure you keep the bottle STERILE. We want a clear solution and nothing growing in our broth