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Cysogeny Broth (LB) medium

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ABSTRACT

Lysogeny broth (LB) is a nutritionally rich medium which is primarily used for the growth of bacteria 111. LB broth is commonly used when cultivating Escherichia coli. There exist different formulations of LB and lead to the development of derivations for specialized use.

GUIDELINES

Follow step by step, unless stated otherwise. Equipment needed should be standard to a microbiology lab.

MATERIALS TEXT

Analytical scale, autoclave, bottle, weight vessel, LAF bench

SAFETY WARNINGS



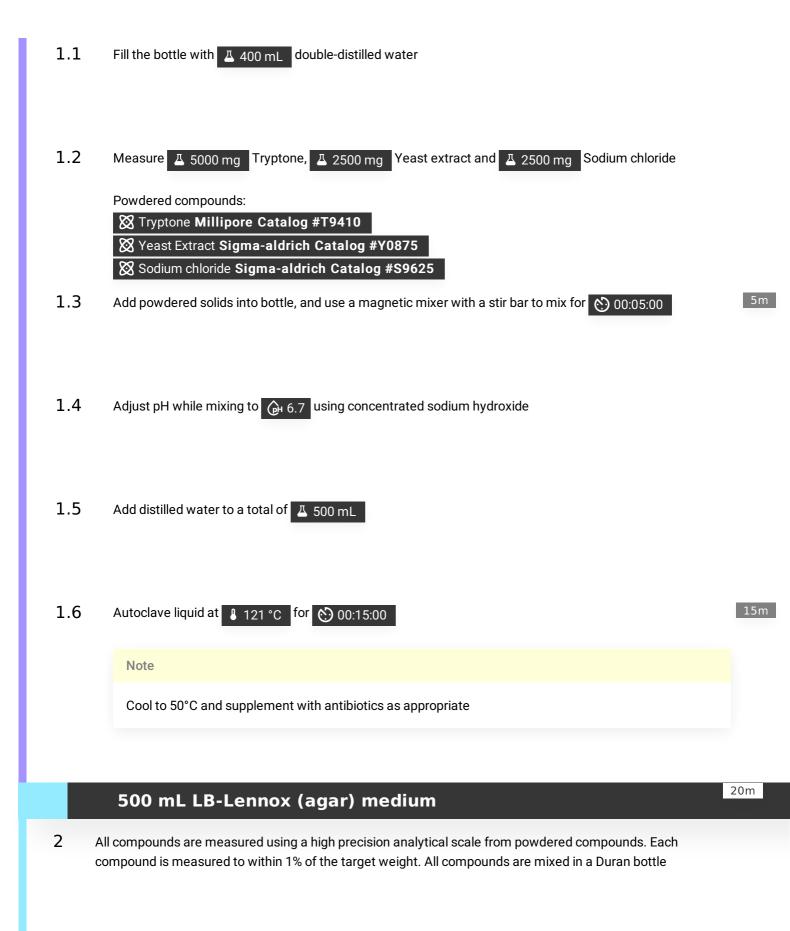
When removing autoclaved components, be sure to take care as this can be very hot. If using antibiotics, use sufficient PPE to protect yourself, as some can be toxic to humans.

BEFORE START INSTRUCTIONS

Prepare glassware by cleaning it, and ensure that scale is sufficiently calibrated

500 mL LB-Lennox (broth) medium

All compounds are measured using a high precision analytical scale from powdered compounds. Each compound is measured to within 1% of the target weight. All compounds are mixed in a Duran bottle



2.1

Fill the bottle with 🚨 400 mL double-distilled water

Powdered compounds:

☐ Tryptone Millipore Catalog #T9410
☐ Yeast Extract Sigma-aldrich Catalog #Y0875
☐ Sodium chloride Sigma-aldrich Catalog #S9625
☐ Add powdered solids into bottle, and use a magnetic mixer with a stir bar to mix for ○ 00:05:00

- 2.4 Adjust pH while mixing to \bigcirc_{H} 6.7 using concentrated sodium hydroxide
- 2.5 Add distilled water to a total of 500 mL
- 2.6 Autoclave liquid at \$\ 121 \cdot C for \ 00:15:00

15m

Note

Cool to 50°C and supplement with antibiotics as appropriate

Agar can be stored, then reheated to 50°C to be poured