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LB agar plate recipe

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We use this protocol and it's working

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Abstract

Ward lab recipe for making LB agar plates.

- 1 Weigh 10 g tryptone, 10 g sodium chloride (NaCl) and 5 g yeast extract and add to 975 ml milliQ water in a beaker with a magnetic stir bar. Mix until powder is dissolved.
- 2 Adjust pH to ~7.0 with 10N sodium hydroxide (~ 400 µl).
- 3 Pour into a graduated cylinder and bring to 1L with milliQ water.
- 4 Transfer to a bottle of the desired volume, add a magnetic stir bar and 15 g of bacto agar. Put on magnetic stirrer to mix.
- 5 Loosely screw on cap and autoclave on liquid cycle (55 min). Also include a 1 L nalgene beaker with a pouring spout. Cover the beaker opening with foil. Add autoclave tape to both.
- 6 Put on magnetic stir bar and cool to 55°C (use infrared thermometer gun; we use this one https://www.amazon.com/Etekcite-Lasergrip-Thermometer-Temperature-Non-contact/dp/B00DMI62HM/ref=ast_sto_dp_puis_mod_primary_new?sbo=RZvfv%2F%2FHxDF%2BO5021pAnSA%3D%3D&th=1).
- 7 Spray down plate pouring area with 70% ethanol.
- 8 Set up a bunsen burner near plate pouring area after ethanol has evaporated.
- 9 While LB agar is cooling, set up stacks of 5-10 cm plastic petri dishes.
- 10 Optional: if making LB agar plates with antibiotics, add 1 ml of a 1000X stock and mix well on the magnetic stir plate.
- 11 1. Wearing nitrile gloves, spray hands with 70% ethanol.
- 12 Transfer LB+agar to 1L Nalgene beaker and hand pour into 10 cm petri dishes. Keep Bunsen burner on nearby to prevent contaminants from landing in the media.
- 13 Let plates dry overnight. Then flip over and store at 4°C. We store plates in a tub and mark the date that they were poured.

