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## 🌐 Making tetracycline LB agar plates

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### ABSTRACT

Making LB agar plates containing tetracycline for selecting strains carrying the pJC8 cosmid. Plates can be stored at 4 °C wrapped in aluminium foil for up to a month.

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**Protocol status:** Working  
We use this protocol and it's working

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## Making tetracycline LB agar plates

### 1 Autoclave or microwave LB agar from media room

#### Note

##### Contents of LB Agar:

37 g pre-mixed powder consisting of:

- 5 g peptone
- 10 g peptone from casein
- 10 g sodium chloride
- 10 g agar-agar
- 1 L Sterile H<sub>2</sub>O

### 2 Make up 15 mg/ml tetracycline hydrochloride in sterile water

#### 2.1 Retrieve tetracycline hydrochloride from -20 °C freezer

#### 2.2 Weigh an empty Eppendorf

#### 2.3 In the fume hood, add tetracycline hydrochloride to the Eppendorf

**2.4** Weigh the Eppendorf, and calculate the difference to determine the weight (mg) of compound

**2.5** To calculate sterile water (uL) to add = (compound mg / 15 mg/mL) x 1000 uL

**3** Let LB agar cool to 55 °C

**4** Dilute tetracycline hydrochloride 1/1000 dilution in LB agar (final conc: 15 ug/mL).

**5** Using a serological pipette, dispense 35 mL agar into 90 mm Petri dishes. Leave to set.