

# LB Plates and Liquid

Thursday, November 03, 2011

2:49 PM

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## LB Plates, 200 ml

In 200 ml dH<sub>2</sub>O

+ 5 g LB Broth (Difco, Luria-Bertani)

+ 3 g Agar (Fishger, BP 1423-500)

Autoclave for 20 min, swirl immediately, allow to cool to touch

Pour plates (≈ 35 ml) label, store at 4°C

## LB Liquid, 200 ml

In 200 ml dH<sub>2</sub>O

+ 5 g LB Broth (Difco, Luria-Bertani)

Autoclave for 20 min

Antibiotic	Stock (mg/ml)	Working (µg/ml)	µl of stock in 5 ml	µl of stock in 20 ml	µl of stock in 40 ml	ml of stock in 200 ml	ml of stock in 500 ml	ml of stock in 1 L
Ampicillin	10	50	25	100	200	1	2.5	5
Chloramphenicol (methanol)	10	20	10	40	80	0.4	1	2
Kanamycin	10	25	12.5	50	100	0.5	1.25	2.5
Rifampicin (methanol)	30	150	25	100	200	1	2.5	5
Spectinomycin	10	100	50	200	400	2	5	10
Streptomycin	10	30	15	60	120	0.6	1.5	3

Note: If using multiple antibiotics you can cut the concentration of each by half

## 10 mg/ml Antibiotic, 10 ml

In 10 ml of sterile dH<sub>2</sub>O

+ 0.1g Antibiotic

Filter sterilize using 0.2 - 0.45 µm syringe filter

Aliquot into sterile 1.5 ml microfuge tubes and store at -20°C

## Glycerol Stock

1. To make glycerol stock prepare a sterile cryovile by adding 800 µl of 80% sterile glycerol

2. To the cryovile add 1 ml of E.Coli culture

3. Snap freeze in LN<sub>2</sub>

Note: Try to make Glycerol stocks from E. Coli in the log phase of growth. i.e. OD ≈ 2