Oct 15, 2019

Antibiotic Stocks

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1 Works for me dx.doi.org/10.17504/protocols.io.7krhkv6

iGEM Wageningen 2019

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MATERIALS TEXT

Ampicillin
Chloramphenicol
Kanamycin
Spectinomycin
Tetracycline

1 Unless otherwise indicated, the antibiotic powder can be dissolved in dH_20. Addgene recommends making 1000X stock solutions and storing aliquots at -20ºC.

Antibiotic	Recomended Stock Concentration	Recomended Working Concentration
Ampicillin	100 mg/mL	100 µg/mL
Chloramphenicol	25 mg/mL(dissolve in EtOH)	25 µg/mL
Gentamycin	10 mg/mL	10 mg/mL
Kanamycin	50 mg/mL	50 µg/mL
Spectinomycin/Streptomycin	50 mg/mL	50 µg/mL
Tetracycline*	10 mg/mL	10 µg/mL

* Light sensitive, Mg2+ - inhibitor - do not use with minimal media.

'Note': All are dissolved in MQ except Chloramphenicol, which is dissolved in ethanol. All antibiotic mixes were filter-sterilized before use.

2 Weigh the antibiotic powders needed for 10 mL of Recommended Stock Concentration Solution.

3 Add the weighed powder to the MQ or ethanol solution. Mix/vortex vigorously until the powder is completely dissolved.

4 Filter sterilize and aliquot into 1.5 mL tubes.

5 To use, dilute your antibiotic into your LB medium at 1:1,000. For example, to make 100 mL of LB/ampicillin growth media, add 100 µL of a 100 mg/mL ampicillin stock (1000X stock) to 100 mL of LB.

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