

Medium Preparation from 1x Stock (RPMI w/ 10% FBS)

Outline

Check medium formulation, then add serum and antibiotics from stock concentrates to obtain final concentration of 10% FBS and 1% PenStrep (100 U/mL Penicilium and 100 µg/mL Streptomycin).

Materials

Sterile

- Growth medium, Mediatech cellgro RPMI 1640 (Cat. No. 10-040-CV), 500 mL
- FBS stock, heat inactivated, Mediatech (Cat. No. 35-011-CV), 50 mL
- PenStrep stock (10,000 U/mL Pen, 10 mg/mL Strep), Mediatech (Cat. No. 30-002-CI), 5 mL
- Pipettes, 5 mL, 50 mL

Nonsterile

- Gloves
- Pipette Aid
- Alcohol, 70% in spray bottle
- Marker pen
- Kimwipes

Protocol

- Collect materials and reagents and place them in biosafety hood, swab with 70% alcohol
- Check medium formulation on the bottle
- Thaw FBS and PenStrep stocks at room temperature
- Add 50 mL of FBS stock to medium
- Add 5 mL of PenStrep stock to medium
- Recap all bottles
- Record the additions on the medium bottle, date and initial medium bottle
- Return medium bottle to 4°C
- Use medium within 3 weeks of preparation

NOTE

Half life of antibiotics is quite short at 37°C, ~2 days for Penicillin and ~4 days for Streptomycin. It is useful to aliquot PenStrep and serum stock concentrates. Thaw aliquots as needed for medium preparation.