10X MEM Protocol

Materials

- 600 mL beaker
- 500 mL bottle of 10X MEM
- 1.46 g L-glutamine (Sigma G8540)
- bottle top filter with porosity of 0.22 µm
- 500 mL bottle (autoclaved)

Procedure

1. Empty the 500ml bottle of 10X MEM into a 600 mL beaker with a stirring bar inside.
2. Weigh out 1.46 grams of L-glutamine.
3. Add L-glutamine to the beaker. Stir until L-glutamine is completely dissolved.
4. Wipe down hood with alcohol.
5. Filter prepared solution (10X MEM) through a bottle top filter into a sterile 500 mL bottle under the hood.
6. Wrap the bottle in aluminum foil to protect it from light.
7. Label bottle with the following:
   - 10X MEM
   - Sterile
   - Date
   - Initials
8. Record the lot numbers of 10X MEM and L-glutamine.
9. Store at 4 °C.

Note: The desired concentration of L-glutamine in 10X MEM is 2920 mg/L. Therefore, 500ml requires 1.46 grams.