



PREPARATION

Preparing ADC

OBJECTIVE

To make ADC to be used as the nutrition source for mycobacteria growing in 7H9 liquid culture or on 7H10 agar plates.

APPROXIMATE TIME NEEDED

~45-60 minutes

MATERIALS NEEDED

60 g dextrose
25.5 g NaCl
150 g Albumin
2850 ml ddH₂O
Large plastic beaker
Large stir bar
Stir plate
Filter sterilization apparatus
Sterile 500 ml plastic bottles

HELPFUL TIPS

⚠ ADC is not stable at high temperatures. This means that heat should NOT be used to help dissolve ingredients, and that sterilization should NOT be done by autoclaving (filter sterilize instead).

PROCEDURE

1. Place the stir bar in the beaker, then add—in this order—Albumin, NaCl, and ddH₂O.
2. When the albumin comes into contact with the water, it will become sticky, and some large chunks may form that do not go into solution. Use a spatula to smash these large chunks on the side wall of the beaker to encourage dissolving.
3. Stir until all the Albumin and NaCl are dissolved.
4. Add the dextrose and continue stirring until it is completely dissolved.
5. Filter sterilize in 250 ml or 500 ml aliquots into the sterile plastic bottles.
6. Store the ADC at 4°C until ready to use. ADC will keep for 6 months at 4°C.