SOP: M008

Preparation of Middlebrook 7H9-Dextrose broth + 0.05% Tween 80 protocol

Materials	and	Reag	ents:
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- 1. Milli-Q water
- 2. Beaker, 1 liter
- 3. Magnetic stir bar
- 4. Magnetic stir plate
- 5. Middlebrook 7H9 broth (VWR 90003-876)
- 6. Dextrose (VWR 90000-908)
- 7. Glycerol (VWR IC800689)
- 8. Tween 80 (Fisher T164-500), 20% solution, sterile
- 9. Graduated cylinder, 1 liter
- 10. Autoclave

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1	Pour 700 ml of Milli-Q water into a 1liter beaker.
2	Add magnetic stir bar to beaker and place on magnetic stir plate.
3	Add 4.7 g of Middlebrook 7H9 dehydrated broth.
4	Add 2.0 g of Dextrose to make a final concentration of 2% (note 1).
4	Make sure all components are completely in solution.
5	Add 2 ml of glycerol.
6	Make sure the glycerol is fully dispersed.
7	Add 2.5 ml of 20% Tween solution to make a final Tween concentration of 0.05%.
8	Pour medium into 1 liter graduated cylinder.
9	Bring volume to 900 ml with Milli-Q water.
10	_ Transfer/aliquot to desired container(s).
11	_ Autoclave on liquid cycle (slow exhaust) at 121°C for 15 minutes.

Notes:

1. This is the amount of dextrose present when OADC is added to the medium at a final concentration of 10%. Therefore, OADC does not need to be added.

Reference

Diffco manual, 10th edition. 1984 Difco Lab, Inc. Detroit, MI 48232.