

SOP-P067

Making Agar for Bacteria Growth_ Rectangle Plates

Objective: To prepare Agar for growing bacteria for the Bardot Project

Procedure: Use the Trypticase Soy Agar Catalog #211043 BD (500g)

Plates: VWR cat#62409-600 Omni Tray w/lid, Sterile cs60 (Mfr #242811)

1. Weigh out 40gm of the powder and suspend it in to 1L of Millipore Water.
2. Mix thoroughly. Heat with frequent agitation and boil for 1 minute to completely dissolve the powder. Do not overheat. Then Autoclave.

Procedure: Pour Agar into Petri Dishes: From the refrigerator method.

1. Remove the bottles containing 500ml of the agar from the refrigerator and let it warm up to room temperature. Each bottle should fill 12 to 14 petri dishes.
2. Be sure you have a microwaveable container with at least 500ml of water in the microwave with the agar. Place the agar in the microwave with the lids loosened for 15 to 20 minutes on high. The agar must be completely dissolved so you may need to cook it longer.
3. Once dissolved, place the bottles in the pre-warmed water bath, set at 60°C. The agar should be around 55°C before pouring. This usually takes approximately 5 minutes.
4. Then remove from the water bath and place the bottles on the flat surface. Place the sterile petri dishes on the flat surface to be filled with the agar.
5. **Pipette 35ml** (draw up 37 but use only 35ml) of the agar into the petri dishes being careful not to create bubbles. If bubbles do occur, just remove them with the pipette. Let cool and then place them with the agar side up carefully in the plastic sleeve they came in. Seal the sleeve with tape and label each stack with date and type of agar. The next day, place all plates in the 37° incubator to check for sterility overnight. If no contamination, replace plates back in the sleeve and label “sterility check-good”. Store in the cold room until needed.

Procedure: Pouring plates of Agar before chilling. (right after autoclaving)

1. Once autoclaved, let the Agar cool down to safe handling temperature. (Bottles will still be warm to touch.)
2. Repeat steps 4 and 5 above.

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Verified by: _____ **Date:** 10/22/2010 _____

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