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140 micro

Lab 3: Culture Media

Microorganisms need food to grow

- **Primary ingredients required by all living organisms include:**

a carbon source, water, minerals, and a nitrogen source.

- **These nutrients together make a media.**
- **Different microbes need different amounts of these nutrients.**

Culture media may be found in one of three states:

- liquid (called broth).
- semi-solid.
- solid.

Aim

To prepare solid and Liquid media

Requirement

Deffrent media :

Nutreint broth - Nutrient agar - PDA/malt extract

Requirement

1- Balance
2- Distil wate
3- Test tubes
4- Petri plates
5- Flaskes
6- Burners
7- Autoclave

Procedure

1- Weigh

2- Dissolve

3- Sterilize

4- cool

5- refrigerate till use

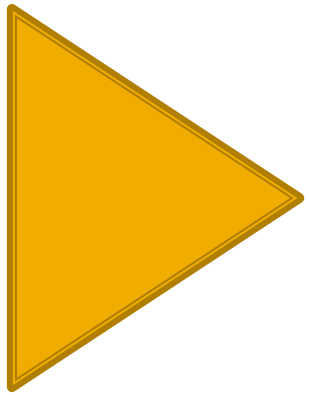
1- Weigh

When lab personnel make media they measure out a quantity of **dry powdered nutrient media**, add **water** and **check the pH(7)**.

2- Dissolve

make cotton plug

Play videos



3- Sterilize

4- cool

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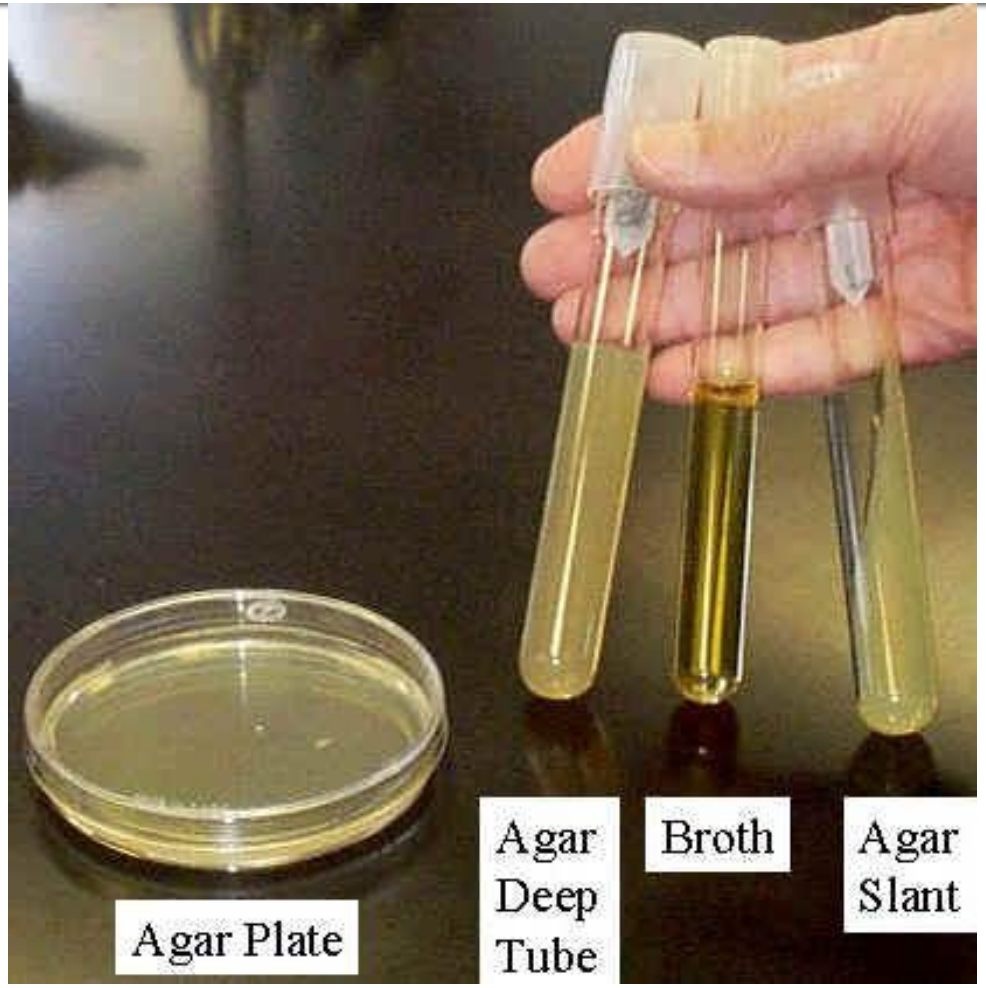
Pouring Media

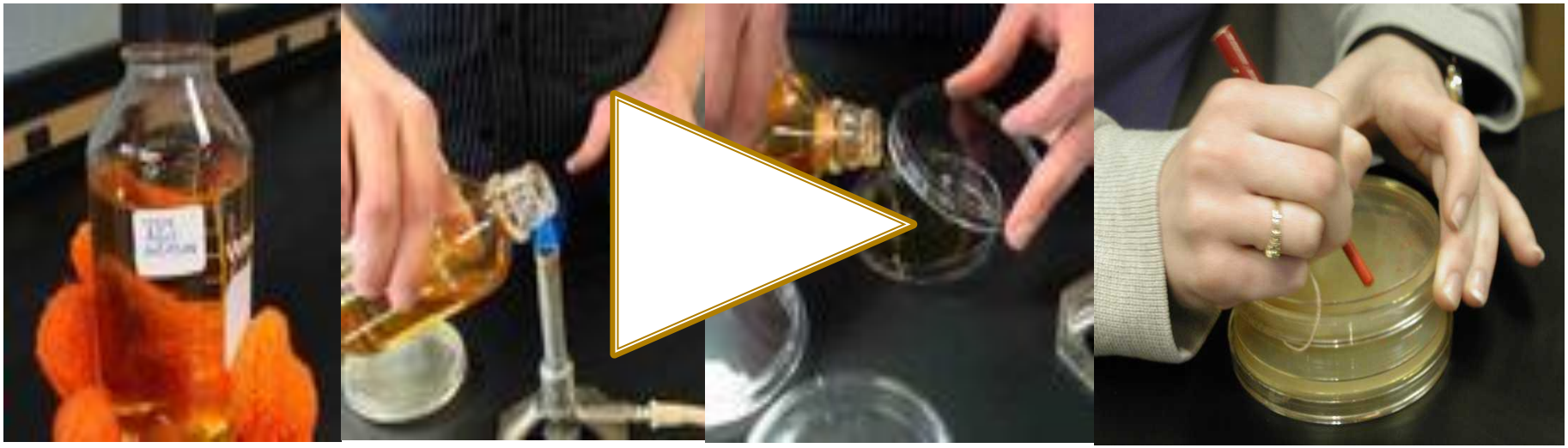
Who to make .....?



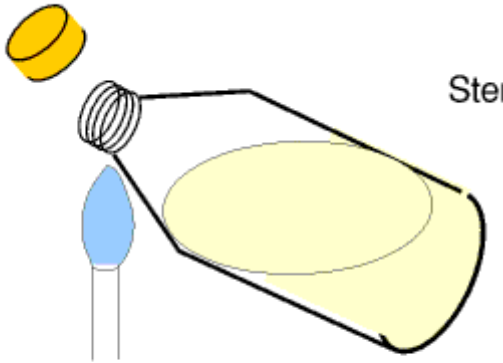
Pouring of Solid media

- Petri plates :

- Remove the lid slightly
- Pour the media near bunsen burner
- Invert the plate
- Write date and time on the sides of plates



"Pouring a Plate"



Neck of agar bottle is passed through flame

Sterilised molten agar is poured in and left to set.

Petri dish lid is opened as little as possible, angled and kept over the base.

Each Petri dish hold about 20 ml, so 200ml will do for 10.

Agar plates are stored upside down to prevent condensation.

- Making of Slants:

- After boiling, pour media in test tubes
- Autoclave
- Place in slant position till the media solidfys.

- Agar deep tube :

- After boiling, pour media in test tubes
- Autoclave
- Place in vertical position till the media solidfys.

Slant agar - Deep agar

-Making of test tubes with broth media :

- Place the testube near a burner and remove the cap
- Pour the media in the tube and close the cap at once
- Place the tube in upright position in the testube stand

Thank you ….