

Preparation of Mycological Media & staining

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preparation of mycological media

***Objective:**

How to prepare media to isolate, culture and identify

medically important fungi .



****preparation step:**

- 1-Weigh the required amount of powder needed to dissolve in distilled water (based on the manufacturers specification in the container).
- 2- dissolving the proper amount of ingredient in flask with water . Do labeling of flask with autoclave tape and cove it with aluminum foil
- 3- Sterilize it in the autoclave at 121c / 15 for 15- 30 min
- 4- cooling at 45 c .
- 5-poring or dispense in appropriate container either label Petri dishes or tubes
- 6- if we are not going to use it put it in the fridge

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Laboratory Sterilization Methods

1. Autoclaving (wet heat)

2. Dry heat

3. Filtration

SDA (sabouraud dextrose agar)



- NOT: for more information check your lab note

MSDA (Modified Sabouraud Dextrose or Emmons Agar)

- This type of media used to
- pH =6.9-7.0
- **preparation:**
- Not: for more information check your lab note

SDA CC (Cycloheximide and chloramphenicol)

- This type of medium is a selective media.
- it is also called Mycobiotic or mycosel
- **preparation:**
- NOT: for more information check your lab note

CMA(Corn Meal Agar)+tween 80

- this type of media is poor media ??
- it is used to see the sporulation of yeast
- Tween (polysorbate) 80 :
- preparation :
 - check

• SDB (Sabouraud Dextrose Broth)

- Used to :

-

- preparation:



urea media

- This type of media is used to grow some types of mold and yeast.



PDA (Potato Dextrose Agar)

- PDA used:

<u>Preparation:</u>	potatoes , infusion form	200g
	dextrose	10 g
	agar	20g
	water	1000ml

- Not: for more information check your lab note

Brain Heart Infusion Agar (BHI)

- This medium is recommended for cultivation of fastidious pathogenic fungi such as *Histoplasma capsulatum* .

Mounting and staining fluids

1- LPCB:

- this stain is useful for making permanent mount of the fungus which is in culture
- LPCB stand of:
 - *L (lactic acid):
 - *p (phenol) :
 - *CB (cotton blue) :
 - *Glycerol :

Not: for more information check your lab note

LPCB STAIN



Stain slid with LPCB



Mounting and staining fluids

2- LP:

- This stain is used to see the pigments of fungi.

3- 10% KOH (Potassium hydroxide) :

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Mounting and staining fluids

4- India ink :

5- Saline:

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