# CAPSULE \* STAINING

Prim + To prepare an India int wet mount for michoscopic examination of Chyptococcus.

### REQUIRED MATERIALS.

1 Inoculating Loop

(Oversclip

Saline

(8) Tooth pick

Michoscope Slide

(9) Standard bright field light

Blood agan plate

тісноворе.

India Ink

Plastic transfer pipette

#### PROCEDURE :-

A loop was prie-flamed to ensure that it is sterile.

Using this stenile loop, loop full of saline was placed onto a michoscope slide.

Then the loop was Mesterilized.

A small amount of growth from a well-isolated colony on a blood again plate was taken.

A light suspension was made by emulsifying the yeast in the saline. The suspension should be barrely visible to the naked eyes as cloudiness.

If it is too densed, it will be difficult to examine.

The loop was nesterilized.

or equal volume of India lok was adoled to years suspension using a drop from plastic transfer pipette.

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10)	This was mixed with a toethpick antill the suspension
11)	A coverehip was placed on the stide and it was not in
	then, the stained wet mount was examined by standard

(H) It is stanted with to times objective and ensured that the condensen was maised.

15) The focus is low power was moved to to limes objective.

#### OBSERVATION

The presence of capsule excluded the particles of Irdia ink and a clean appearance around each cellwar observed.

#### CONCLUSION

From this expeniment, we have successfully penformed capsule staining.

### ENDOSPORE STAINING

Aim: - To psenform endospone staining.

## REQUIRED MATERIALS

- 1 Prepared spream.
- D Papen tower
- 3 Bunsen Bunner
- (9) Metal on Aluminium Cup
- @ Malachite green stain.
- 6 Slide
- 1 Safracia.

Theony :

The endapone stain is exeful for detecting endapone forming backenia. Endapones are inclusions inside of cells that one very mesistant to heat, chemicals and modiation. Under favornite conditions spenes can germinate to form vegetative cells, because a thick coast covers the endapone, it does not take up stain easily and it is necessary to heat the smear in the presence of same to force it into the endapone After cooling the clides are exposed to sofranin in a second counter stain which stains vegetative cells.

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	PROCEDURE :-
0	A smeath was finish prepared as outlined in smean
-	
0	A paper touching was cut to a dimension larger than the
	and the edge of the clide this allows
	anietali of otalo to be alaced on the access a cal
(3)	the stain from drying out.
0	stain a water bath was set up with
	a bursen burner and simple metal on aluminium cup as a heating platform.
9	It is important to keep water bath gets to a high temperature
	so that steam should be naked before adding malachite
	green stain.
6	After the boiling of water bath a large amount of malachite
	govern was added to the slide and the slide was stained
	for 5 minutes. It is important to watch the slide carefully
	during the staining to prevent the malauhite green from
(F)	completely evapenating.
(6)	It is also necessary to odd extra stain during the 5 minutes
1	After 5 minutes, slide was allowed to cool and malochite
0	green had to be exemoved.
(2)	A wash with water removed any excess malachite green.
9	Then safranin was used as a counter stain at moon temperatury
	to state reactable cells.
10	Finally, the slide was Hinself with water and blotted day
	using a soft paper towel. (on blotting paper)

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#### OBSERVATION

was observed under microscope. Long chains of pink cells were found with green colouned endopones.

#### CONCLUSION :-

distinguished the endosponer from regetative cells using endospones staining process.