Title: MIC32100-Yeast Culture

Type: Laboratory Services Program SOP
Issuing Authority: Director, Health Services

Policy Number:

Date Approved:

Next Review Date:

PROGRAM Standard Operating Procedure – Laboratory Services

Title: MIC32100 – Yeast Culture Policy Number:

Program Name: Laboratory Services

Applicable Domain: Lab, DI and Pharmacy Services

Additional Domain(s):

Effective Date: Next Review Date:

Issuing Authority: Date Approved:

Director, Health Services

GUIDING PRINCIPLE:

Accreditation Canada Applicable Standard: N/A

Yeast cultures are performed to identify yeast in select specimens. Yeast isolates are identified and reported based on clinical significance in the location of isolation.

PURPOSE/RATIONALE:

This standard operating procedure describes the screening for *Candida albicans* in anal, penis, cervical and vaginal specimens.

SCOPE/APPLICABILITY:

This procedure applies to Medical Laboratory Technologists (MLTs) processing specimens for yeast culture.

SAMPLE INFORMATION:

Type	Swab	
Туре	Amie's with or without charcoal	
Source	AnusPenis	
	CervixVagina	
Stability	 If the sample is received in the laboratory and processed greater than 48 hours from collection: Add specimen quality comment: "Delayed transport may adversely affect pathogen recovery" 	
Storage Requirements	Room temperature	
Criteria for rejection	 Unlabeled/mislabeled swabs Specimen container label does not match patient identification on requisition 	

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REAGENTS and/or MEDIA:

Sabouraud Dextrose agar (SAB)

SUPPLIES:

- Disposable inoculation needles
- Microscope slides
- Sterile saline
- Wooden sticks
- Coverslips

EQUIPMENT:

- Biosafety cabinet
- Microscope
- Vitek 2 and supplies

SPECIAL SAFETY PRECAUTIONS:

Containment Level 2 facilities, equipment, and operational practices for work involving infectious or potentially infectious materials or cultures:

- Ensure that appropriate hand hygiene practices be used
- Lab gown must be worn when performing activities with potential pathogens
- Gloves must be worn when direct skin contact with infected materials is unavoidable
- Eye protection must be used when there is a known or potential risk of exposure of splashes
- All procedures that may produce aerosols, or involve high concentrations or large volumes should be conducted in a biological safety cabinet (BSC)
- The use of needles, syringes and other sharp objects should be strictly limited

All patient specimens are assumed to be potentially infectious. Routine Practices must be followed. Since viable micro-organisms are used, all cultures must be handled with appropriate precautions. All equipment in contact with cultures should be decontaminated by appropriate methods.

QUALITY CONTROL:

Refer to Test Manual for reagent quality control procedures

PROCEDURE INSTRUCTIONS:

Step	Action		
Processing specimens for yeast culture			
1	 In the biosafety cabinet: Inoculate SAB with the swab Ensure all surfaces of the swab make contact with the agar Streak for isolated growth using a disposable inoculation needle Write on the plate the date of the 48 hour read 		
2	Incubate the media: • Place SAB on the appropriate workbench		

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INTERPRETATION OF RESULTS:

Step		Action
1	Observe SAB platExamine for white	e at 48 hours e, creamy colonies resembling yeast
3	If no colonies resembling yeast are seen at 48 hours: Record observations in the LIS Workup complete No yeast isolated If colonies resembling yeast are seen: Record observations in the LIS Perform a wet prep of the colonies	
	IF	THEN
4	Wet prep NEGATIVE	Workup completeYeast not isolated
	Wet prep POSITIVE	Perform Vitek 2 YST card

REPORTING INSTRUCTIONS:

IF	REPORT
Yeast not isolated	Report: "No Yeast Isolated"
Yeast Isolated, Candida albicans	Report organism identificationList quantitation as "Isolated"
Yeast Isolated, not <i>Candida albicans</i>	 Add isolate: "Yeast (NOT Candida species) Use LIS OrgID: ystnot List quantitation as "Isolated"

LIMITATIONS:

- 1. The Vitek 2 YST card provides an acceptable identification for *Candida* spp. and results can be reported as tested.
- 2. If yeast other than *Candida* spp. are isolated, the identification should not be reported.

REFERENCES:

- 1. Leber, A. (2016). *Clinical microbiology procedures handbook.* (4thed.) Washington, D.C.: ASM Press
- Jorgensen J.H., Pfaller M.A., Carroll K.C., Funke G., Landry M.L., Richter S.S., Warnock D.W. (2015). Manual of Clinical Microbiology, 11th edition. Washington, D.C: ASM Press

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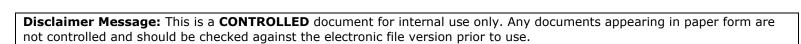
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APPROVAL:	
Date	

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	31 Dec 21	Initial Release	L. Steven



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