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				
Accreditation Canada Applicable Standard: N/A				

GUIDING PRINCIPLE:

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:

To determine the presence or absence of yeast in anal, penis, cervical and vaginal specimens.

SCOPE/APPLICABILITY:

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

Тура	Swab	
Туре	Amie's with or without charcoal	
Source	 Anus Penis Cervix 	
	 Vagina 	
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 	

SAMPLE INFORMATION:

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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
- Vitek 2 and supplies

SPECIAL SAFETY PRECAUTIONS:

Containment Level 2 facilities, equipment, and operational practices for work involving infectious or potential 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 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 workbench			

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INTERPRETATION OF RESULTS:

Step	Action		
1	 Observe SAB plate at 48 hours Examine for white, creamy colonies resembling yeast 		
	IF	THEN	
2	Colonies resembling yeast NOT seen	Workup completeYeast not isolated	
	Colonies resembling yeast seen	Perform wet prep	
	IF	THEN	
3	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, <i>Candida</i> spp.	 Report organisms identification List quantitation as "Isolated"
Yeast Isolated, not <i>Candida</i> spp.	 Add isolate: "Yeast (NOT Candida albicans) 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. is isolated, the identification should not be reported in routine yeast cultures.

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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Type: Laboratory Services Program SOP Policy Number: Date Approved:

APPROVAL:

Date

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	30 Jan 21	Initial Release	L. Steven

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