PROGRAM Standard Operating Procedure – Laboratory Services			
Title: MIC32100 -	Policy Number:		
Yeast Culture			
Program Name: Laboratory Services			
Applicable Domain: Lab, DI and Pharmacy Services			
Additional Domain(s): NA			
Effective Date:	Next Review Date:		
Issuing Authority:	Date Approved:		
Director, Laboratory and Diagnostic Imaging Services			
Accreditation Canada Applicable Standard: NA			

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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:

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:

Туре	SwabAmie'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 	

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Policy Number:

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:

Action			
Observe SAB plate at 48 hours			
Examine for white, creamy colonies resembling yeast			
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		
Wet prep	Workup complete		
NEGATIVE	Yeast not isolated		
Wet prep POSITIVE	Perform VITEK 2 YST card		
	 Examine for white If no colonies resemine Record observation Workup complete No yeast isolated If colonies resemblini Record observation Perform a wet pressent IF Wet prepnet NEGATIVE 		

REPORTING INSTRUCTIONS:

IF	REPORT
Yeast not isolated	 Report: "No Yeast Isolated"
Yeast Isolated, Candida albicans	 Report organism identification List quantitation as "Isolated"
Yeast Isolated, not <i>Candida albicans</i>	 Add isolate: "Yeast (NOT Candida species) Use LIS OrgID: ystnot List quantitation as "Isolated"
Yeast culture ordered on vaginal swab and applicable clinical information not provided	 Choose key 2 on CXYST keypad to add test comment }YST which states: "Routine yeast cultures on yaginal swabs will

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.

CROSS-REFERENCES:

NA

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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

APPROVAL:

Date

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	31 Dec 21	Initial Release	L. Steven
2.0	21 Dec 23	Procedure reviewed	L. Steven
3.0	02 Dec 24	Procedure updated to add the reporting of samples not meeting testing criteria	L. Steven

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