Title: MIC32100-Yeast Culture

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

Policy Number:

Next Review Date:

Date Approved:

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:	Effective Date:		
Issuing Authority:			
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 their full identification and 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.

SAMPLE INFORMATION:

	Swab	
Туре	Amie's with or without charcoal	
Source	AnusPenisCervix	
	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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REAGENTS and/or MEDIA:

Sabouraud Dextrose (SAB) agar

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 hang 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		
Proce	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,	Report: "Candida albicans"
Candida albicans	List quantitation as "Isolated"
Yeast Isolated,	Report: "Yeast (NOT Candida albicans)"
not Candida albicans	 List quantitation as "Isolated"

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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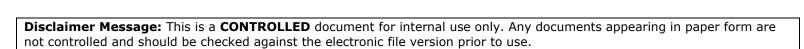
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APPROVAL:				
Date				

REVISION HISTORY:

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



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