PROGRAM Standard Operating Procedure – Laboratory Services		
Title: MIC32000 – Oral Culture	Policy Number: 15-137-V2	
Program Name: Laboratory Services		
Applicable Domain: Lab, DI and Pharmacy Services		
Additional Domain(s): NA		
Effective Date: 06/05/2025	Next Review Date: 06/05/2027	
Issuing Authority: Director, Laboratory and Diagnostic Imaging Services	Date Approved: 06/05/2025	
Accreditation Canada Applicable Standard: NA		

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GUIDING PRINCIPLE:

Mouth swabs are usually obtained to identify oral yeast infections (thrush). Thrush is a common infection of the mouth and tongue caused by *Candida* spp. such as *Candida albicans*, *Candida glabrata*, *Candida tropicalis*, and *Candida krusei*.

PURPOSE/RATIONALE:

This standard operating procedure describes the screening for *Candida* spp. in oral (mouth) specimens.

SCOPE/APPLICABILITY:

This standard operating procedure applies to Medical Laboratory Technologists (MLTs) processing specimens for oral culture.

Туре	Swab Amie's with or without charcoal 	
Source	Mouth or tongue	
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		
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:

• Candi*Select* agar (YST)

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 MIC60040-Culture Media Quality Control procedure
- Refer to Test Manual for reagent quality control procedures

PROCEDURE INSTRUCTIONS:

Step	Action	
Processing specimens for oral culture		
1	 In the biosafety cabinet: Inoculate YST agar with the swab Ensure all surfaces of the swab make contact with the agar Streak for isolated growth using a disposable inoculation needle 	
2	Label the YST plate with: R (Date + 2 day).	

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	Incubate the media:
3	• Place YST plate in the O ₂ incubator on the "YST SCREEN" section on the old cultures shelf

INTERPRETATION OF RESULTS:

Step	Action	
1	 Observe YST plate at 48 hours Examine for the presence of yeast growth, characterized by colored colonies on the agar 	
2	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, <i>Candida</i> spp.	 Report organism identification List quantitation as "Isolated"
Yeast Isolated, not <i>Candida</i> spp.	 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.

CROSS-REFERENCES:

• MIC60040-Culture Media Quality Control

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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Policy Number: 15-137-V2

APPROVAL:

May 06, 2025

Date a ela

Acting Director, Laborator y and Diagnostic Imaging Services

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	06 Nov 17	Initial Release	L. Steven
2.0	04 Dec 19	Updated to include new VITEK 2 instrument	L. Steven
3.0	31 Dec 21	Procedure reviewed and added to NTHSSA policy template	L. Steven
4.0	31 Aug 23	Procedure reviewed	L. Steven
5.0	31 Mar 25	Procedure reviewed and updated to reflect new yeast agar CandiSelect	L. Steven

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