Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

PROGRAM Standard Operating Procedure – Laboratory Services		
Title: MIC10100 – Microbiology Specimen Processing	Policy Number: 15-146-V1	
Program Name: Laboratory Services		
Applicable Domain: Lab, DI and Pharmacy Services		
Additional Domain(s): NA		
Effective Date: 15/03/2024 Next Review Date: 15/03/2026		
Issuing Authority: Director, Laboratory and Diagnostic Imaging Services	Date Approved: 15/03/2024	

Accreditation Canada Applicable Standard: NA

Uncontrolled When Printed

GUIDING PRINCIPLE:

A guide to the processing of specimens submitted for bacterial culture for the following specimens:

- 1. Bacterial Vaginosis Screen...pg.3
- 2. Blood Culture:
 - a. Receiving Blood Culture bottles...pg.4
 - b. Positive Blood Culture in BACTEC FX...pq.6
 - c. Blood Culture received >24 hr...pg.8
- 3. Blood Product Culture...pg.11
- 4. Body Fluid Culture:
 - a. FLD received in sterile container...pg.12
 - b. FLD received in BC bottles <24 hr...pg.14
 - c. FLD received in BC bottles >24 hr...pq.16
- 5. CSF Culture...pg.20
- 6. Ear Culture...pg.21
- 7. Eve Culture:
 - a. Superficial Eye...pg.22
 - b. Deep Eye...pg.23

- 8. GBS Screen...pg.24
- MRSA Screen...pg.25
- 10.MRO Screen...pg.25
- 11.Nasal Culture...pg.26
- 12. Neisseria gonorrhoeae...pg. 27
- 13.Oral Culture...pg.28
- 14. Respiratory Culture...pg. 29
- 15.Throat Culture...pg.30
- 16.Tip Culture...pg.30
- 17. Toxigenic C. difficile...pg. 31
- 18. Trichomonas Rapid Test...pg.31
- 19. Urine Culture...pg. 31
- 20.VRE Screen...pg.32
- 21.Wet Prep Screen...pg.32
- 22. Wound Culture:
 - a. Superficial Wound...pg.33
 - b. Deep Wound...pg.34
- 23. Yeast Culture...pg. 35

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 1 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Next Review Date: 15/03/2026

PURPOSE/RATIONALE:

This standard operating procedure describes the specimen processing for microbiology specimens at Stanton Territorial Hospital.

SCOPE/APPLICABILITY:

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

REAGENTS and/or MEDIA:

- Anaerobic KV agar (KV)
- Blood agar (BA)
- Brucella agar (BRU)
- Candi*Select* agar (YST-O)
- Chocolate agar (CHO)
- Colistin-nalidixic acid agar (CNA)
- LIM broth (LIM)

- MacConkey agar (MAC)
- MRSASelect II agar (MRS)
- StrepBSelect agar (GBS)
- Thayer Martin agar (TM)
- Thioglycollate broth (THIO)
- UriSelect 4 agar (URI)
- VRE*Select* agar (VRE)

SUPPLIES:

- Disposable 1 µL and 10 µL loops
- Disposable needles
- Glass microscope slides
- Ringed cytology slides
- Alcohol pads
- Sterile pipettes

- Sterile swabs
- Anaerobic trays and jars
- Anaerobic indicators
- AnaeroGen packs
- AnaeroPouch packs
- Blood culture subculture vents

EQUIPMENT:

- Biosafety cabinet
- 35° O₂ and 35° CO₂ incubators

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.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 2 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

QUALITY CONTROL:

Refer to MIC60010-Microbiology Quality Control procedure

Refer to MIC60040-Culture Media Quality Control procedure

1. PROCEDURE INSTRUCTIONS: BACTERIAL VAGINOSIS SCREEN

Step	Action
1	 Posterior vaginal vault or vaginal orifice Only performed on patients that are >13 years of age If specimen is received on patient ≤13 years of age, process as a genital culture Refer to MIC10110-Vaginal Swab Processing Job Aid for other tests ordered on vaginal swabs
2	Specimen should be stored at room temperature.
3	 Criteria for rejection: 1. Unlabeled/mislabeled specimen 2. Specimen container label does not match patient identification on requisition 3. Duplicate specimens obtained with same collection method within 24 hours
4	 Label the following media/slides: Label the frosted end of a glass microscope slide with the accession number, patient's last name and specimen type
5	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.
6	Gram stain slide. Refer to MIC20115-Gram Stain.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 3 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

2. PROCEDURE INSTRUCTIONS: BLOOD CULTURE

<u>a.</u> R	eceiving Blood Culture bottles
Step	Action
1	Blood
	Sterile fluid received in blood culture bottle
2	Specimen should be stored at room temperature.
3	 Criteria for rejection: Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Broken/cracked bottle NOTE: If patient has been treated with antibiotics, blood culture specimens are considered irretrievable. SCM40110-Waiver of Responsibility form needs to be filled out by the responsible nurse NOTE: Except for the above conditions, blood culture specimens are not rejected regardless of delayed transport, if received frozen or if bottles are expired. Ensure the appropriate specimen quality comments are attached to the specimen in ORDER ENTRY and process blood culture specimen
4	Blood culture bottles need to be ordered, collected and received into SoftMic before loaded onto the BACTEC FX analyzer. However, it is important that bottles are received but NOT plated. The instrument will not issue preliminary and final no growth reports if the specimen has been plated in the LIS.
5	Receiving can be performed in Order Entry: 1. Order blood culture bottles 2. Collect and receive bottles by selecting the Add button beside Collected by and Received by: CCRAE CKRAN Source, BLOOD Stood Stat. Current antibiote therapy Current antibiote therapy Current antibiote therapy Micro DE Comment Source, BLOOD Blood State Current antibiote therapy Micro DE Comment Source, BLOOD Blood State Current antibiote therapy Micro DE Comment Current antibiote therapy Micro DE Comment Source, BLOOD Blood State Current antibiote therapy Micro DE Comment Current antibiote therapy Micro DE Comment

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 4 of 36

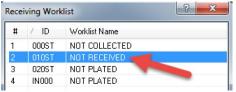
Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

6

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

Receiving of multiple bottles can be performed in the Receiving Worklist:

- 1. Select **Receiving Worklist** icon on the main menu
- 2. Select Not Received:



3. Scan the blood culture bottles that you want to receive. Each bottle that has been scanned will have a red check mark beside the order on the left side:



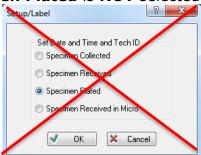
4. Select **Setup/Label** from the menu on the right-hand side:



5. Ensure that **Specimen Received** is selected:



6. Ensure that **Specimen Plated** is **NOT** selected:



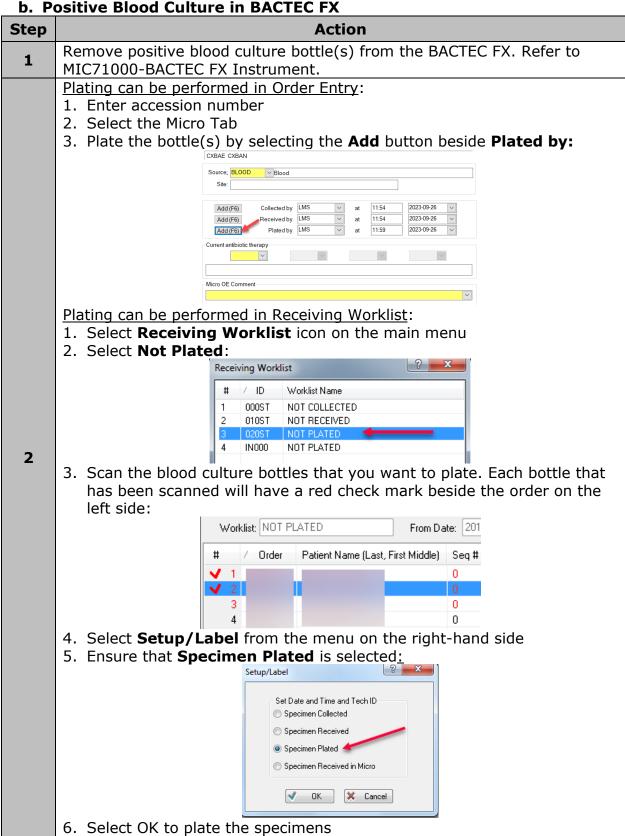
- 7. Once you have ensured that Specimen Received is selected, select the OK button to receive the specimens
- 8. Load bottles onto the BACTEC FX analyzer as per MIC71000-BACTEC **FX Instrument**

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 5 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Next Review Date: 15/03/2026



Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 6 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

4	Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar BRU-2: Brucella agar Label the frosted end of a glass microscope slide with the accession number, patient's last name, bottle type (AE/AN/PED) Clean slide with alcohol pad prior to inoculation NOTE: Indicate which bottle is positive on ALL plates and slides NOTE: Indicate the date the bottle(s) went positive on all plates Working in the biosafety cabinet subculture the bottle(s): Swab the rubber septum with an alcohol pad and insert a vent Holding the bottle horizontally, place one drop on each plate and two small drops on the slide: Carefully pull the vent out of the bottle and discard it into the sharps container in the biosafety cabinet Using a sterile loop, streak the plates for isolation Spread the drops out on the FULL slide using the sterile loop:
5	Place MAC plate on the "BLOOD CULTURES" shelf in the O ₂ incubator.
6	Place BA and CHO plates in the lower CO ₂ incubator on the "New + Blood Cultures" shelf.
7	Place BRU plate in an anaerobic tray or jar with anaerobic pouch and indicator as soon as practical after inoculation. Label tray or jar with date of 48 hour read and place in the O ₂ incubator on the "WOUND ANO ₂ " shelf. NOTE: Anaerobes should not be exposed to air for 42-48 hours after inoculation. Refer to MIC10000-Microbiology Specimen Handling
8	Gram stain slide. Refer to MIC20115-Gram Stain. NOTE: Positive blood culture gram stains should be read within 1 hour of processing during regular Microbiology hours

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 7 of 36 Title: MIC10100-Microbiology Specimen Processing

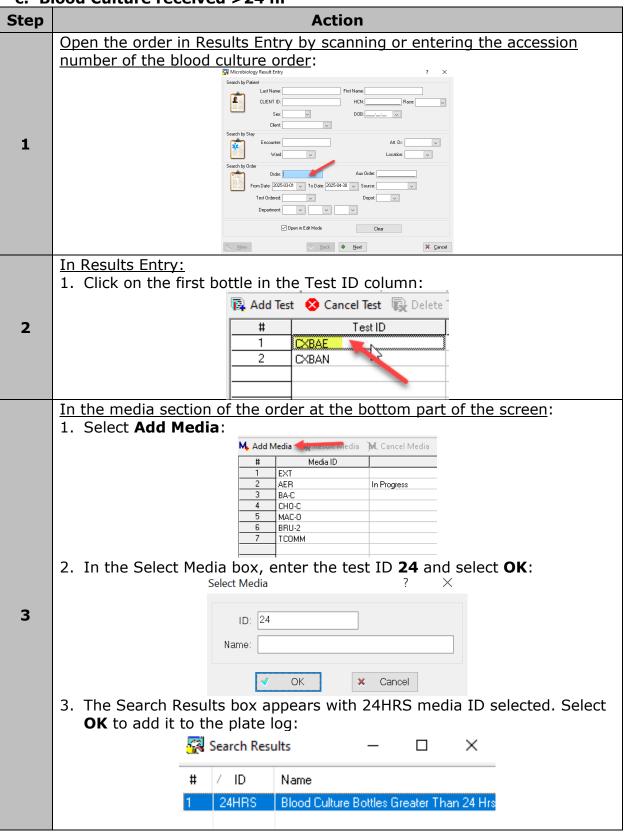
Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Next Review Date: 15/03/2026

Type: Laboratory Services Program SOP

Policy Number: 15-146-V1 Date Approved: 15/03/2024

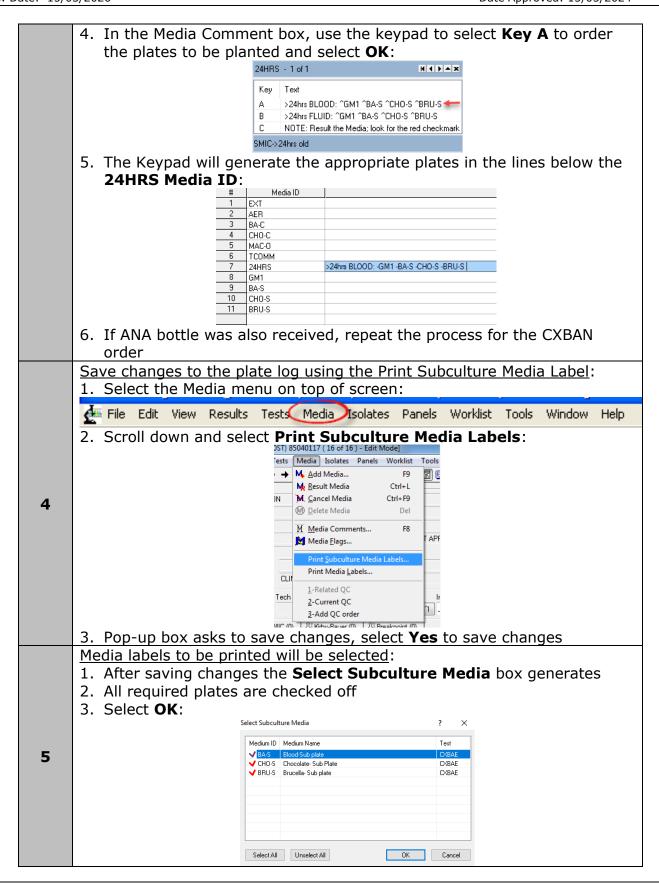
c. Blood Culture received >24 hr



Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 8 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Date Approved: 15/03/2024 Next Review Date: 15/03/2026

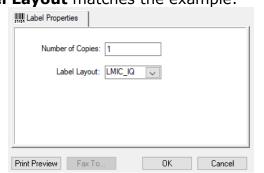


Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 9 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Date Approved: 15/03/2024 Next Review Date: 15/03/2026

> 4. After selecting OK the **Label Properties** box generates 5. Ensure the **Label Layout** matches the example:



NOTE: This format only applies to the main microbiology label printer and not the desktop Zebra printers

Label the following media/slides:

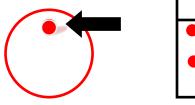
- BA-S: Blood agar
- CHO-S: Chocolate agar
- BRU-S: Brucella agar
- Label the frosted end of a glass microscope slide with the accession 6 number, patient's last name, bottle type (AE/AN/PED)
 - Clean slide with alcohol pad prior to inoculation

NOTE: Indicate which bottle is >24 hours on ALL plates and slides

NOTE: Write ">24 HR" on ALL plates and slides

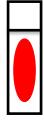
Working in the biosafety cabinet subculture the bottle(s):

- 1. Swab the rubber septum with an alcohol pad. Insert a vent into the bottle
- 2. Holding the bottle horizontally, place one drop on each plate and two small drops on the slide:



7

- 3. Carefully pull the vent out of the bottle and discard it into the sharps container in the biosafety cabinet
- 4. Using a sterile loop, streak the plates for isolation
- 5. Spread the drops out on the FULL slide using the sterile loop:



Load bottles onto the BACTEC FX analyzer as per MIC71000-BACTEC FX 8 Instrument.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 10 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Next Review Date: 15/03/2026

Policy Number: 15-146-V1
Date Approved: 15/03/2024

9	Place BA and CHO plates in the lower CO ₂ incubator on the "24 HR Blood Cultures" shelf.
10	Place BRU plate in an anaerobic tray or jar with anaerobic pouch and indicator as soon as practical after inoculation. Label tray or jar with date of 48 hour read and place in the O_2 incubator on the "WOUND ANO ₂ " shelf. NOTE: Anaerobes should not be exposed to air for 42-48 hours after inoculation. Refer to MIC10000-Microbiology Specimen Handling
11	Gram stain slide. Refer to MIC20115-Gram Stain.

3. PROCEDURE INSTRUCTIONS: BLOOD PRODUCT CULTURE

Step		Action
1	•	Refer to MIC10300-Blood Product Culture Processing

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 11 of 36

Type: Laboratory Services Program SOP Title: MIC10100-Microbiology Specimen Processing

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

4. PROCEDURE INSTRUCTIONS: BODY FLUID CULTURE

a. Body fluid received in sterile container:

	ody fluid received in sterile container:
Step	Action
1	 Fluid should be collected in a sterile specimen container or tube and/or into blood culture bottles If fluid is received in blood culture bottles, refer to part 4. b. If swab is received, add Specimen Quality comment SWBFL Refer prosthetic device specimens for culture to APL Refer tissue or biopsy specimens for culture to APL
2	Specimen should be stored at room temperature. NOTE: If a delay in processing is anticipated, do NOT refrigerate
3	 Criteria for rejection: Insufficient volume for tests requested: contact the physician to prioritize requests Leaking specimens should be processed, but alert the physician of the possibility of contamination by adding Specimen Quality comment LEAK Specimens received in the laboratory in a syringe with the needle still attached will be rejected. In addition, an RL6 will be filed outlining the hazard. Refer to SCM40100-Specimen Acceptance and Rejection Policy Improperly collected, labeled, transported or handled specimens should be processed. SCM40110-Waiver of Responsibility form needs to be filled out by the responsible nurse If only blood culture bottles are received, a gram stain cannot be performed
4	 Volume received: >1mL: Centrifuge at 3500 rpm for 10 minutes (Program 2). Remove supernatant with sterile pipette and place into red top tube labeled with SUP label. Mix sediment with pipette. <=1mL: Inoculate plates using a sterile pipette. NOTE: If sample is NOT centrifuged, add Specimen Quality comment NOSPI to state: Sample not concentrated
5	 Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar MAC-O: MacConkey agar BRU-2: Brucella agar THIO2: Thioglycollate broth Label the frosted end of a microscope slide with the accession number, patient's last name and specimen type Clean slide with alcohol pad prior to inoculation
6	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen
	Handling. Make Gram stain smear. Refer to MIC10000-Microbiology Specimen
7	Handling.
8	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 12 of 36

Policy Number: 15-146-V1

Date Approved: 15/03/2024

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services
Next Review Date: 15/03/2026

14

Place specimen container, supernatant (SUP) tube and sediment (CONC) 9 tube in the O2 incubator in the "STERILE BODY FLUIDS" bucket. Label THIO with Day 2 date and Day 5 date. Place THIO broth in "THIO" rack in O2 incubator in "Day 2" row. 10 **NOTE:** If fluid is from above the neck, keep THIO and BRU for 10 days 11 Place MAC plate in the O₂ incubator on the "NEW WOUND" shelf. 12 Place BA and CHO plates in the CO₂ incubator on the "NEW WOUND" shelf. Place BRU in an anaerobic tray or jar with anaerobic pouch and indicator as soon as practical after inoculation. Label tray or jar with date of 48 13 hour read and place in the O₂ incubator on the "WOUND ANO₂" shelf. **NOTE:** Anaerobes should not be exposed to air for 42-48 hours after

inoculation. Refer to MIC10000-Microbiology Specimen Handling

NOTE: Fluid gram stains should be read within 1 hour of processing

Gram stain slide. Refer to MIC20115-Gram Stain.

during regular Microbiology laboratory hours

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 13 of 36

Type: Laboratory Services Program SOP

Title: MIC10100-Microbiology Specimen Processing Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

b. B	Body fluid received in blood culture bottle <24 hours old:		
Step	Action		
1	Sterile fluid received in blood culture bottles		
2	Specimen should be stored at room temperature.		
3	 Criteria for rejection: Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Broken/cracked bottle NOTE: If patient has been treated with antibiotics, fluid specimens in blood culture bottles are considered irretrievable. SCM40110-Waiver of Responsibility form needs to be filled out by the responsible nurse NOTE: Except for the above conditions, fluid specimens in blood culture bottles are not rejected regardless of delayed transport, if received frozen or if bottles are expired. Ensure the appropriate specimen quality comments are attached to the specimen in OE and process body fluid in blood culture bottle specimen 		
4	Sterile body fluids received in blood culture bottles need to be collected and received into SoftMic before loaded onto the BACTEC FX analyzer. It is important when receiving sterile body fluids in blood culture bottles that they are received but NOT plated. The instrument will not issue preliminary and final no growth reports if the specimen has been plated.		
5	Receiving can be performed in Order Entry: 1. Order sterile body fluid received in blood culture bottles as CXFBC 2. Collect and receive bottles by selecting the Add button beside Collected by and Received by: Second Particular P		

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 14 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

Receiving of multiple bottles can be performed in the Receiving Worklist:

- 1. Select **Receiving Worklist** icon on the main menu
- 2. Select Not Received:



3. Scan the blood culture bottles that you want to receive. Each bottle that has been scanned will have a red check mark beside the order on the left side:



4. Select **Setup/Label** from the menu on the right-hand side:



6

5. Ensure that **Specimen Received** is selected:



6. Ensure that **Specimen Plated** is **NOT** selected:



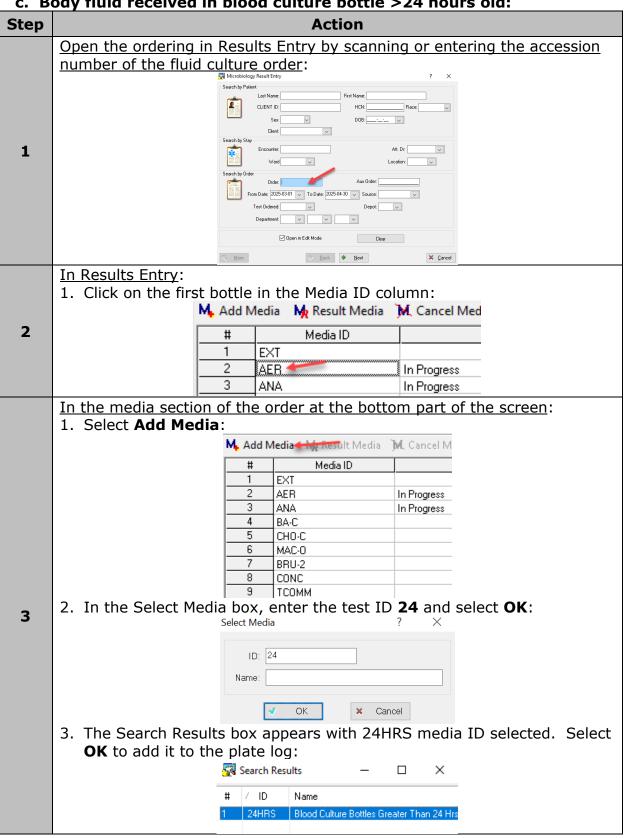
- 7. Once you have ensured that Specimen Received is selected, select the OK button to receive the specimens
- 8. Load bottles onto the BACTEC FX analyzer as per MIC71000-BACTEC **FX Instrument**

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 15 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

c. Body fluid received in blood culture bottle >24 hours old:



Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

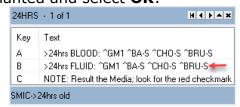
Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 16 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services
Next Review Date: 15/03/2026

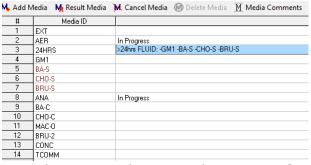
4. In the Media Comment box, use the keypad to select **Key B** to order the plates to be planted and select **OK**:

Policy Number: 15-146-V1

Date Approved: 15/03/2024

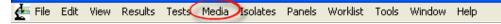


5. The Keypad will generate the appropriate plates in the lines below the **24HRS Media ID**:

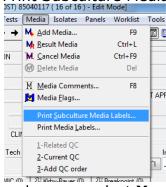


6. If ANA bottle was also received, repeat the process for the ANA media Save changes to the plate log using the Print Subculture Media Label:

1. Select the Media menu on top of screen:



2. Scroll down and select Print Subculture Media Labels:



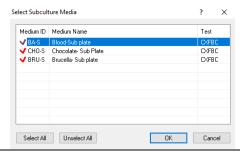
3. Pop-up box asks to save changes, select **Yes** to save changes

Media labels to be printed will be selected:

- 1. After saving changes the **Select Subculture Media** box generates
- 2. All required plates are checked off
- 3. Select **OK**

5

4



Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 17 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

4. After selecting OK the **Label Properties** box generates

5. Ensure the **Label Layout** matches the example:



NOTE: This format only applies to the main microbiology label printer and to the desktop Zebra printers

Label the following media/slides:

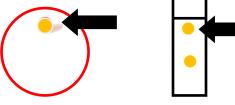
- BA-S: Blood agar
- CHO-S: Chocolate agar
- BRU-S: Brucella agar
- Label the frosted end of a glass microscope slide with the accession number, patient's last name, bottle type (AE/AN/PED)
 - Clean slide with alcohol pad prior to inoculation

NOTE: Indicate which bottle is >24 hours on ALL plates and slides

NOTE: Write "> 24 HR" on ALL plates and slides

Working in the biosafety cabinet subculture the bottle(s):

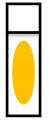
- 1. Swab the rubber septum with an alcohol pad. Insert a vent into the bottle
- 2. Holding the bottle horizontally, place one drop on each plate and two small drops on the slide:



7

6

- 3. Carefully pull the vent out of the bottle and discard it into the sharps container in the biosafety cabinet
- 4. Using a sterile loop, streak the plates for isolation
- 5. Spread the drops out on the FULL slide using the sterile loop:



Load bottles onto the BACTEC FX analyzer as per MIC71000-BACTEC FX 8 Instrument.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 18 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Next Review Date: 15/03/2026

Policy Number: 15-146-V1
Date Approved: 15/03/2024

9	Place BA and CHO plates in the lower CO ₂ incubator on the "24 HR Blood Cultures" shelf.
10	Place BRU in an anaerobic tray or jar with anaerobic pouch and indicator as soon as practical after inoculation. Label tray or jar with date of 48 hour read and place in the O ₂ incubator on the "WOUND ANO ₂ " shelf. NOTE: Anaerobes should not be exposed to air for 42-48 hours after inoculation. Refer to MIC10000-Microbiology Specimen Handling
11	Gram stain slide. Refer to MIC20115-Gram Stain.

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 19 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

5. PROCEDURE INSTRUCTIONS: CSF CULTURE

Step	Action
1	Central nervous system shunt fluid
_	CSF from lumbar puncture Chasiman about the standard at recommendations
2	Specimen should be stored at room temperature. NOTE: If a delay in processing is anticipated, do NOT refrigerate
	Criteria for rejection:
	1. Insufficient volume for tests requested: contact the physician to
	prioritize requests
	2. Leaking specimens should be processed, but alert the physician of the
3	possibility of contamination by adding Specimen Quality comment LEAK
	3. Improperly collected, labeled, transported or handled specimens should
	be processed. SCM40110-Waiver of Responsibility form needs to be
	filled out by the responsible nurse
	<u>Volume received</u> : (Tube 2 is the usual tube for Microbiology)
4	• >1mL: Centrifuge at 3500 rpm for 10 minutes (Program 2). Remove
4	supernatant with sterile pipette and place into red top tube labeled with SUP label. Mix sediment with pipette
	• <=1mL: Inoculate plates using a sterile pipette
	Label the following media/slides:
	BA-C: Blood agar
	CHO-C: Chocolate agar
5	 MAC-O: MacConkey agar Label the frosted end of a ringed cytology slide with the accession
	number, patient's last name and specimen type
	Clean slide with alcohol pad prior to inoculation
	NOTE: If specimen is from a shunt, THIO needs to be added
6	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen
	Handling. Stronk plates for isolation. Refer to MIC10000 Microbiology Specimen
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.
	Place specimen collection tube and supernatant tube (if applicable) in the
8	O ₂ incubator in "STERILE BODY FLUIDS" bucket.
9	If applicable, label THIO with Day 2 date and Day 5 date. Place THIO broth
	in "THIO" rack in O ₂ incubator in "Day 2" row.
10	Place MAC plate in the O ₂ incubator on the "NEW WOUND" shelf.
11	Place BA and CHO plates in the CO ₂ incubator on the "NEW WOUND" shelf.
	Gram stain slide. Refer to MIC20115-Gram Stain.
12	NOTE: CSF gram stains should be read within 1 hour of processing during
	regular Microbiology hours

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 20 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

6. PROCEDURE INSTRUCTIONS: EAR CULTURE

Step	Action
1	 External auditory canal (outer ear) Otitis media discharge swabbed from external auditory canal NOTE: Tympanocentesis fluid should be ordered as a body fluid culture
2	Specimen should be stored at room temperature.
3	Criteria for rejection:1. Unlabeled/mislabeled specimen2. Specimen container label does not match patient identification on requisition
4	 Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar CNA-C: Colistin-nalidixic acid agar MAC-O: MacConkey agar Label the frosted end of a glass microscope slide with the accession number, patient's last name and specimen type
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.
8	Place MAC plate in the O ₂ incubator on the "NEW WOUND" shelf.
9	Place BA, CHO and CNA plates in the CO ₂ incubator on the "NEW WOUND" shelf.
10	Gram stain slide. Refer to MIC20115-Gram Stain.

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 21 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

7. PROCEDURE INSTRUCTIONS: EYE CULTURE

a. Superficial Eye

Step	Action
1	ConjunctivaSuperficial corneal specimens
2	Specimen should be stored at room temperature.
3	Criteria for rejection:1. Unlabeled/mislabeled specimen2. Specimen container label does not match patient identification on requisition
4	 Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar Label the frosted end of a glass microscope slide with the accession number, patient's last name and specimen type
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.
8	Place BA and CHO plates in the CO ₂ incubator on the "NEW WOUND" shelf.
9	Gram stain slide. Refer to MIC20115-Gram Stain.

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 22 of 36 Type: Laboratory Services Program SOP

Title: MIC10100-Microbiology Specimen Processing Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

h. Deen Eve

	eep Eye			
Step	Action			
1	Corneal scrapingsAqueous/vitreous fluidKeratitis			
2	Specimen should be stored at room temperature.			
3	 Criteria for rejection: Unlabeled/mislabeled swabs Specimen container label does not match patient identification on requisition Improperly collected, labeled, transported or handled specimens should be processed. SCM40110-Waiver of Responsibility form needs to be filled out by the responsible nurse 			
4	 Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar MAC-O: MacConkey agar BRU-2: Brucella agar Label the frosted end of a glass microscope slide with the accession number, patient's last name and specimen type Clean slide with alcohol pad prior to inoculation 			
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.			
6	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.			
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.			
8	Place MAC plate in the O ₂ incubator on the "NEW WOUND" shelf.			
9	Place BA and CHO plates in the CO ₂ incubator on the "NEW WOUND" shelf.			
10	Place BRU plate in an anaerobic tray or jar with anaerobic pouch and indicator as soon as practical after inoculation. Label tray or jar with date of 48 hour read and place in the O ₂ incubator on the "WOUND ANO ₂ " shelf. NOTE: Anaerobes should not be exposed to air for 42-48 hours after inoculation. Refer to MIC10000-Microbiology Specimen Handling			
11	Gram stain slide. Refer to MIC20115-Gram Stain. NOTE: Deep eye stains should be read within 1 hour of processing during regular Microbiology hours			

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 23 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

8. PROCEDURE INSTRUCTIONS: GBS SCREEN

Step	Action	
1	 Vaginal-Rectal Specimen for GBS screening in pregnancy should be collected at 35 to 37 weeks gestation 	
2	Specimen should be stored at room temperature.	
3	 Criteria for rejection: 1. Unlabeled/mislabeled specimen 2. Specimen container label does not match patient identification on requisition 3. Duplicate specimens obtained with same collection method from same collection location within 24 hours 	
4	Label the following media/slides: • LIM-C: LIM broth • GBS-O: StrepBSelect agar ➤ Attach the GBS-O label to the clip on the front of the BSC	
5	Break the swab off into the LIM broth. Recap loosely.	
6	 Incubate the media as follows: LIM Broth: CO₂ incubator This is done by the technologist performing daily shutdown duties 	
7	 After the LIM broth incubates for 18-24 hours: Remove the required number of StrepBSelect agar plates from the refrigerator and bring to room temperature Label the GBS-O plates with the labels clipped to the BSC Also label the GBS-O plate with R: Date +2 date Remove LIM broth from incubator and subculture to the GBS-O plates: Saturate a sterile swab in the broth and rotate against the wall of the tube above the liquid to remove excess inoculum and swab the first quadrant of the StrepBSelect agar Streak for isolated growth using a disposable inoculation needle Streak out to cover the whole plate 	
8	Place GBS plate on the "GBS Screens" shelf in the O ₂ incubator.	

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 24 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

9. PROCEDURE INSTRUCTIONS: MRSA SCREEN

Ste	Action Action
1	 Bilateral nasal swab Bilateral groin swab Swab specimen from various sources
2	Specimen should be stored at room temperature.
3	 Criteria for rejection: 1. Unlabeled/mislabeled specimen 2. Specimen container label does not match patient identification on requisition 3. Duplicate specimens obtained with same collection method from same collection location within 24 hours
4	<u>Label the following media/slides</u> : • MRS-O: MRSA <i>Select</i> II agar
5	Inoculate plate with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Streak plate for isolation. Refer to MIC10000-Microbiology Specimen Handling.
7	Label the MRSA plate with R: Date +1 date
8	Place MRS plate in the O ₂ incubator on the "NEW URINE " shelf.

10. PROCEDURE INSTRUCTIONS: MRO SCREEN

<u> </u>	ROCEDORE INSTRUCTIONS: PIRO SCREEN
Step	Action
1	Swab specimen from various sources
2	Specimen should be stored at room temperature.
3	 Criteria for rejection: Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Duplicate specimens obtained with same collection method from same collection location within 24 hours
4	 Label the following media/slides: MRS-O: MRSASelect II agar VRE-O: VRESelect agar
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.
7	 Label the MRSA plate with R: Date +1 date Label the VRE plate with R: Date +2 date
8	Place MRS plates in the O_2 incubator on the "NEW URINE" shelf. Place VRE plates on the "VRE SCREENS" shelf in the O_2 incubator.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 25 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

11. PROCEDURE INSTRUCTIONS: NASAL CULTURE

Step	Action	
1	• Nose	
2	Specimen should be stored at room temperature.	
3	<u>Criteria for rejection</u>:1. Unlabeled/mislabeled specimen2. Specimen container label does not match patient identification on requisition	
4	Label the following media/slides:BA-O: Blood agarCNA-O: Colistin-nalidixic acid agar	
5	Inoculate plate with specimen. Refer to MIC10000-Microbiology Specimen Handling.	
6	Streak plate for isolation. Refer to MIC10000-Microbiology Specimen Handling.	
7	Label the BA and CNA plates with: R: Date +2 date.	
8	Place BA and CNA plates on the "NOSE CULT" shelf in the O_2 incubator.	
9	Gram stain is not performed. No slide is required.	

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 26 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

12. PROCEDURE INSTRUCTIONS: NEISSERIA GONORRHOEAE CULTURE

Step	Action
1	 Urethra (male specimens only) Cervix Throat Eye Rectum
2	Specimen can be stored at room temperature or refrigerated.
3	Criteria for rejection:1. Unlabeled/mislabeled specimen2. Specimen container label does not match patient identification on requisition
4	 Label the following media/slides: CHO-C: Chocolate agar TM-C: Thayer Martin agar If the source is urethra, label the frosted end of a glass microscope slide with the accession number, patient's last name and specimen type NOTE: Slides are only made on urethra specimens, not cervix, eye or throat
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	If applicable, make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.
8	Place CHO and TM plates in the CO ₂ incubator on the "NEW URINE" shelf.
9	If applicable, gram stain slide. Refer to MIC20115-Gram Stain.

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 27 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

15. PROCEDURE INSTRUCTIONS: ORAL CULTURE

Step	Action
1	MouthTongue
2	Specimen should be stored at room temperature.
3	<u>Criteria for rejection</u>:1. Unlabeled/mislabeled specimen2. Specimen container label does not match patient identification on requisition
4	<u>Label the following media/slides</u> : • YST-O: Candi <i>Select</i> agar
5	Inoculate plate with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Streak plate for isolation. Refer to MIC10000-Microbiology Specimen Handling.
7	Label YST plate with R: Date +2 date.
8	Place YST plate on the "YST SCREENS" shelf in the O2 incubator.
9	Gram stain is not performed. No slide is required.

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 28 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

16. PROCEDURE INSTRUCTIONS: RESPIRATORY CULTURE

Step	Action	
1	 Sputum Endotracheal aspirate Auger suction Bronchial aspirates (washings) Bronchoalveolar lavage (BAL) 	
2	Specimen should be refrigerated.	
3	 Criteria for rejection: Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Swabs of sputa Duplicate specimens obtained with the same collection method within 24 hours Leaking specimens Improperly collected, labeled, transported or handled bronchial aspirate (wash specimens), BAL specimens, lung aspirates and lung biopsy specimens should be processed. SCM40110-Waiver of Responsibility form needs to be filled out by the responsible nurse. 	
4	 Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar CNA-C: Colistin-nalidixic acid agar MAC-O: MacConkey agar Label the frosted end of a glass microscope slide with accession number, patient's last name and specimen type 	
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.	
6	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.	
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.	
8	Place MAC plate in the O ₂ incubator on the "NEW WOUND" shelf.	
9	Place BA, CHO and CNA plates in the CO ₂ incubator on the "NEW WOUND shelf.	
10	Gram stain slide. Refer to MIC20115-Gram Stain.	

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 29 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

17. PROCEDURE INSTRUCTIONS: THROAT CULTURE

L/. F	ROCLDOKE INSTRUCTIONS. THROAT COLLOKE
Step	Action
1	Throat swab
2	Specimen should be stored at room temperature.
3	 Criteria for rejection: 1. Unlabeled/mislabelled specimen 2. Specimen container label does not match patient identification on requisition 3. Duplicate specimens obtained with same collection method within 24 hours
4	<u>Label the following media/slides</u> : • BA-2: Blood agar
5	Inoculate plate with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Streak plate for isolation. Refer to MIC10000-Microbiology Specimen Handling.
7	Label BA plate with R: Date +2 date.
8	Place BA plate in "For throat jar" rack in the CO ₂ incubator.
9	Gram stain is not performed. No slide is required.

18. PROCEDURE INSTRUCTIONS: TIP CULTURE

Step	Action	
1	 Intravascular catheters including: central, CVC, peripheral, arterial, jugular, femoral, subclavian, umbilical and hemodialysis 	
2	Specimen should be refrigerated.	
3	 Criteria for rejection: 1. Unlabeled/mislabeled specimen 2. Specimen container label does not match patient identification on requisition 3. Foley catheter tips are not acceptable for culture 4. Chest tube tips and abdominal drain tips 5. Catheter tips should not be placed in saline or transport medium 	
4	Label the following media/slides:BA-C: Blood agarMAC-O: MacConkey agar	
5	Using a sterile needle, roll the segment back and forth 4 times across the surface of the Blood agar plate followed by the MacConkey plate. NOTE: If the tip is too long, cut the proximal end with sterilized scissors prior to rolling onto plates	
6	Place MAC plate in the O₂ incubator on the "NEW WOUND" shelf.	
7	Place BA plate in the CO₂ incubator on the "NEW WOUND" shelf.	
8	Gram stain is not performed. No slide is required.	

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 30 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1
Next Review Date: 15/03/2026 Date Approved: 15/03/2024

19. PROCEDURE INSTRUCTIONS: Toxigenic C. difficile

Step		Action
1	•	Refer to MIC72400-Xpert <i>C. difficile</i>

20. PROCEDURE INSTRUCTIONS: Trichomonas Rapid Test

Step		Action
1	•	Refer to MIC10350-OSOM <i>Trichomonas</i> Rapid Test

21. PROCEDURE INSTRUCTIONS: URINE CULTURE

Step	Action
1	Fresh urine collected in sterile container
	Fresh urine collected in urine transport tube
2	Urine in sterile container should be refrigerated
	 Urine in urine transport tube can be kept at room temperature or refrigerated
	<u>Criteria for rejection</u> :
3	1. Unlabeled/mislabeled specimen
	Specimen container label does not match patient identification on requisition
	3. Duplicate specimens obtained with the same collection method within 24 hours
	4. Refrigerated fresh urine specimens received >24 hours after collection 5. 24 hour urine collections
	6. Foley catheter tips
	7. Specimens in leaking container
	Label the following media/slides:
	UR1-0: Uri <i>Select</i> 4 agar for non-sterile urine specimens
4	UR2-O: UriSelect 4 agar for sterile urine specimens
	NOTE: Highlight urine type on plate if UR2-0
F	Inoculate plate with specimen. Refer to MIC10000-Microbiology Specimen
5	Handling.
6	Streak plate for isolation. Refer to MIC10000-Microbiology Specimen
	Handling.
7	Place URI plate in the O_2 incubator on the "NEW URINE" shelf.

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 31 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

22. PROCEDURE INSTRUCTIONS: VRE SCREEN

Step	Action					
1	Swab specimen					
	Stool specimens					
2	Specimen should be stored at room temperature.					
3	 Criteria for rejection: Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Duplicate specimens obtained with same collection method from same collection location within 24 hours Nasal and axilla swabs should not be processed for VRE 					
4	<u>Label the following media/slides</u> : • VRE-O: VRE <i>Select</i> agar					
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.					
6	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.					
7	Label the VRE plate with: R: Date +2 date.					
8	Place VRE plate on the "VRE SCREENS" shelf in the O_2 incubator.					

23. PROCEDURE INSTRUCTIONS: WET PREP SCREEN

Step	Action				
-	Wet prep is only performed in absence of Trichomonas Rapid Test				
1	CervixUrethra (male)Vagina				
2	Specimen should be stored at room temperature.				
3	 Criteria for rejection: Specimen is >72 hours old Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Duplicate specimens obtained with same collection method within 24 hours 				
4	Label the following media/slides: • WPGS: Glass test tube				
5	Place labeled glass test tube into a rack and add approximately 0.5 mL of saline.				
6	Place the culture swab into the saline and mix. Place the swab transport tube in the slot behind the glass test tube.				
7	Incubate in the O_2 incubator for at least 15 minutes.				

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 32 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

24. PROCEDURE INSTRUCTIONS: WOUND CULTURE

Superficial Wound

a. 3	a. Superficial Wound					
Step	Action					
1	 Superficial wound specimens: Abrasion, cut, laceration, ulcer, skin diseases (impetigo, folliculitis, cellulitis), first degree burn, superficial surgical incision, etc. Superficial specimens: Boils, cyst, etc. Drain specimens: J-tubes, G-tubes, chest tube, abdominal, etc. 					
2	Specimen should be stored at room temperature.					
3	 Criteria for rejection: Unlabeled/mislabeled specimen Specimen container label does not match patient identification on requisition Specimens for culture submitted in container with formalin Submission of specimens to determine <i>if</i> an infection is present should be discouraged 					
4	 Label the following media/slides: BA-C: Blood agar CNA-C: Colistin-nalidixic acid agar MAC-O: MacConkey agar Label the frosted end of a glass microscope slide with accession number, patient's last name and specimen type 					
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.					
6	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.					
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.					
8	Place MAC plate in the O ₂ incubator on the "NEW WOUND" shelf.					
9	Place BA and CNA plates in the CO ₂ incubator on the "NEW WOUND" shelf.					
10	Gram stain slide. Refer to MIC20115-Gram Stain.					

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 33 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

b. Deep Wound

Step	Action					
эсер						
1	SwabAspirate/drainage/pus received in sterile container					
2	Specimen should be stored at room temperature.					
3	 Criteria for rejection: 1. Unlabeled/mislabeled specimen 2. Specimen container label does not match patient identification on requisition 3. Specimens for culture submitted in container with formalin 					
4	 Label the following media/slides: BA-C: Blood agar CHO-C: Chocolate agar CNA-C: Colistin-nalidixic acid agar MAC-O: MacConkey agar BRU-2: Brucella agar KV-2: Anaerobic KV agar Label the frosted end of a glass microscope slide with the accession number, patient's last name and specimen type 					
5	Inoculate plates with specimen. Refer to MIC10000-Microbiology Specimen Handling.					
6	Make Gram stain smear. Refer to MIC10000-Microbiology Specimen Handling.					
7	Streak plates for isolation. Refer to MIC10000-Microbiology Specimen Handling.					
8	Place MAC plate in the O_2 incubator on the "NEW WOUND" shelf.					
9	Place BA, CHO and CNA plates in the CO ₂ incubator on the "NEW WOUND" shelf.					
10	Place BRU and KV plates in an anaerobic tray or jar with anaerobic pouch and indicator as soon as practical after inoculation. Label tray or jar with date of 48 hour read and place in the O ₂ incubator on the "WOUND ANO ₂ " shelf. NOTE: Anaerobes should not be exposed to air for 42-48 hours after inoculation. Refer to MIC10000-Microbiology Specimen Handling					
11	Gram stain slide. Refer to MIC20115-Gram Stain.					

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 34 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services Policy Number: 15-146-V1
Next Review Date: 15/03/2026 Date Approved: 15/03/2024

25. PROCEDURE INSTRUCTIONS: YEAST CULTURE

Step	Action
1	 Anal Cervix Penis Vagina NOTE: Refer to MIC10110-Vaginal Swab Processing Job Aid for yeast culture ordered on vaginal swabs
2	Specimen should be stored at room temperature.
3	 Criteria for rejection: 1. Unlabeled/mislabeled specimen 2. Specimen container label does not match patient identification on requisition 3. Vaginal swab without appropriate clinical history
4	Label the following media/slides: YST-O: CandiSelect agar
5	Inoculate plate with specimen. Refer to MIC10000-Microbiology Specimen Handling.
6	Streak plate for isolation. Refer to MIC10000-Microbiology Specimen Handling.
7	Label YST plate with R: Date +2 date.
8	Place YST plate on the "YST SCREENS" shelf in the O_2 incubator.
9	Gram stain is not performed. No slide is required.

CROSS-REFERENCES:

- MIC10000-Microbiology Specimen Handling
- MIC10110-Vaginal Swab Processing Job Aid
- MIC10300-Blood Product Culture Processing
- MIC10350-OSOM Trichomonas Rapid Test
- MIC20115-Gram Stain
- MIC60010-Microbiology Quality Control procedure
- MIC60040-Culture Media Quality Control procedure
- MIC71000-BACTEC FX Instrument
- SCM40100-Specimen Acceptance and Rejection Policy
- SCM40110-Waiver of Responsibility Form

REFERENCES:

- 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

Disclaimer Message: This is a **CONTROLLED** document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 35 of 36

Issuing Authority: Director, Laboratory and Diagnostic Imaging Services

Policy Number: 15-146-V1 Next Review Date: 15/03/2026 Date Approved: 15/03/2024

APPROVAL:

March 15, 2024

Date

Director, Laboratory and Diagnostic Imaging Services

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	11 Aug 2016	Initial Release	L. Steven
2.0	10 Jun 2019	Update to reflect new urine chromogenic agar	L. Steven
3.0	27 Feb 2020	Procedure reviewed	L. Steven
4.0	30 Jan 2022	Procedure reviewed and added to NTHSSA policy template	L. Steven
5.0	14 Feb 2024	Procedure reviewed	L. Steven

Disclaimer Message: This is a CONTROLLED document for internal use only. Any documents appearing in paper form are not controlled and should be checked against the electronic file version prior to use.

Policy Number: 15-146-V1 Date Approved: 15/03/2024 Page 36 of 36