Stanton Territorial Hospita	Stanton Territorial Hospital	Document Number: MIC10	230
	P.O. Box 10, 550 Byrne Road	Version No: 2.0	Page: 1
NORTHWEST TERRITORIES	YELLOWKNIFE NT X1A 2N1	Distribution:	
Health and Social Services Authority		Microbiology Specimen Pro	cessing Manual
Services Authority		Effective: 28 April, 2017	
Document Name:		Date Reviewed: 28 April, 2017	
Microbiology Specimen Processing		Next Review: 28 April, 2019	
Approved By: Jennifer G. Daley Bernier, A/Manager, Laboratory Services		Status: APPROVED	

PURPOSE:

A guide to the processing of specimens submitted for bacterial culture. This procedure will instruct on the following samples:

- 1. Blood Cultures
 - a. Positive Blood Cultures
 - b. Blood Cultures received >24 hour
- 2. CSF
- 3. Sterile fluids (not CSF/Blood Cultures)
- 4. Urines
- 5. Stools
- 6. Superficial Wounds/Ears
- 7. Deep Wounds/Miscellaneous aspirates
- 8. Eyes
 - a. Superficial
 - b. Deep
- 9. Throats
- 10. Sputum/ETT/Bronchial Washes
- 11. Genital Cultures
- 12. MRO swabs
- 13. Group B Screen
- 14. IUD
- 15. Catheter tips
- 16. Oral Cultures

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REAGENTS and/or MEDIA:

Blood agar (BA)	Hektoen agar (HEK)
MacConkey agar (MAC)	Selenite broth (SEL)
Chocolate agar (CHOC)	Thayer Martin agar (TM)
Brucella agar (BAA)	LIM GrpB broth
Laked blood and KV (KVL)	Thio broth
Colistin-nalidixic agar (CAN)	Sabouraud agar (SAB)
Campy agar (Campy)	Cooked meat broth
Sorbitol MacConkey agar (SMAC)	Denium Blue agar (MRSA)
Cefsulodin, Irgasan, Novobiocin agar (CIN)	Colorex VRE

SUPPLIES:

Spreading loops/ straight wires	Anaerobic/Microaerophilic Jars
Glass slides	Anaerobic indicator
Calibrated 1µL blue loops	Anaerogen pack
Sterile pipettes	Campygen pack
Cotton tipped swabs	

SPECIAL SAFETY PRECAUTIONS:

Containment Level 2 facilities, equipment, and operational practices for work involving infectious or potentially infectious materials or cultures.

- 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 where there is a known or potential risk of exposure to 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. Universal precautions 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 MIC60100 Non-Exempt Media Quality Control procedure

PROCEDURE NOTES:

- Specimens unsuitable for culture: colostomy discharge, foley catheter tips, gastric aspirates, lochia, vomitus
- After processing, place specimens in the daily rack or container in the BSC
- Discard specimens from the rack and container after 7 days

LIMITATIONS:

- False-positive cultures result from specimen mix-up and from contamination of media used for culture
- False-negative results are due to improper collection, delays in culture inoculation, inappropriate medium usage and inappropriate incubation conditions

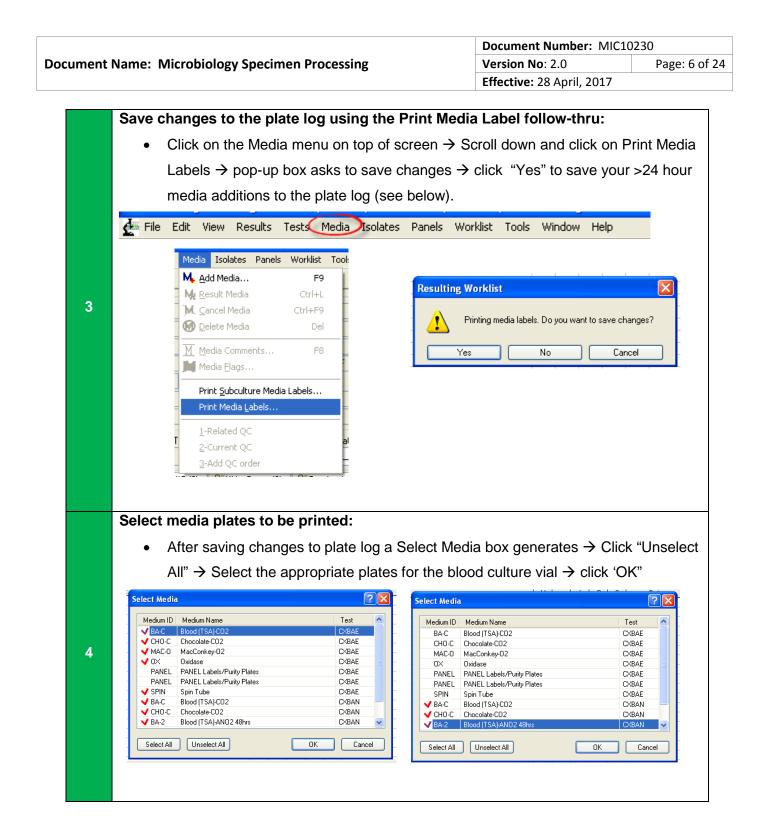
1. PROCEDURE INSTRUCTIONS: BLOOD CULTURES

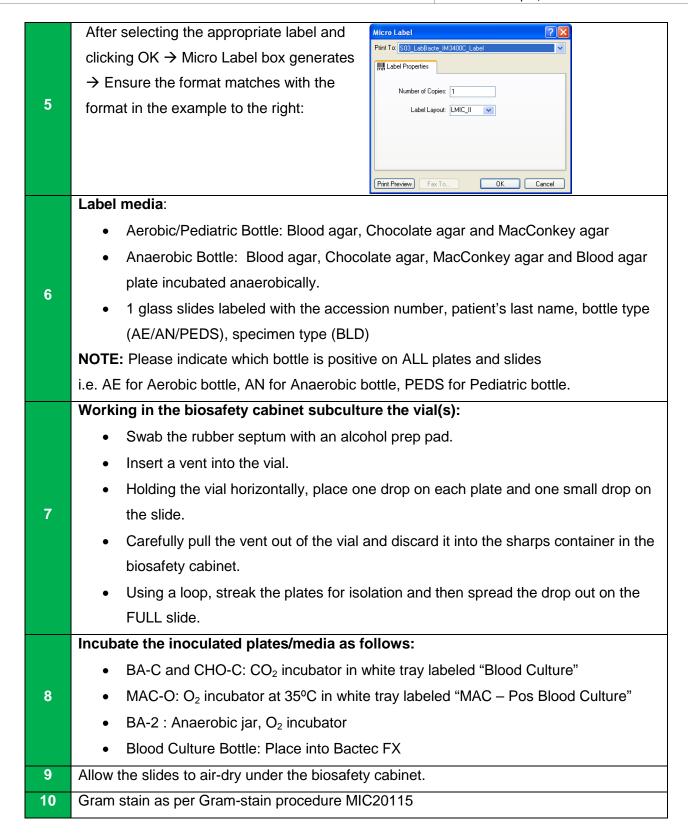
a. Positive Blood Cultures in Bactec FX

Step	Action	
1	Remove positive blood culture bottle(s) from the Bactec FX	
	Generate plate labels through the LIS system:	
2	• In Order Entry: Enter Accession $\# \rightarrow Micro Tab \rightarrow Hit F6$ in the "Plated By"	
	$field \to SAVE$	
	Label media:	
	Aerobic/Pediatric Bottle: Blood agar, Chocolate agar and MacConkey agar	
	Anaerobic Bottle: Blood agar, Chocolate agar, MacConkey agar and Blood agar	
3	plate incubated anaerobically	
	 1 glass slides labeled with the accession number, patient's last name, bottle type 	
	(AE/AN/PEDS), specimen type (BLD)	
	NOTE: Please indicate which bottle is positive on ALL plates and slides	
	i.e. AE for Aerobic bottle, AN for Anaerobic bottle, PEDS for Pediatric bottle	
	Working in the biosafety cabinet subculture the vial(s):	
	 Swab the rubber septum with an alcohol prep pad 	
	Insert a vent into the vial	
	Holding the vial horizontally, place one drop on each plate and one small drop on	
4	the slide	
	Carefully pull the vent out of the vial and discard it into the sharps container in	
	the biosafety cabinet	
	Using a loop, streak the plates for isolation and then spread the drop out on the	
	FULL slide	
	Incubate the inoculated plates/media as follows:	
	 BA-C and CHO-C: CO₂ incubator in white tray labeled "Blood Culture" 	
5	 MAC-O: O₂ incubator at 35°C in white tray labeled "MAC – Pos Blood Culture" 	
	 BA-2 : Anaerobic jar, O₂ incubator 	
	 Blood Culture Bottle: place in top shelf of O₂ incubator 	
6	Allow the slides to dry on slide warmer	
7	Gram stain as per Gram-stain procedure MIC20115	

b. Blood Cultures received >24 hour

Step	Action	
	Add the Plate Log code: "24"	
	 Click on "Add Media" → in the 'ID" field type in "24" → Search Results screen 	
	pops up with the name of the 24HRS media ID $ ightarrow$ click OK to add it to the plate	
1	log (see below).	
•	Extend that I a construction of the constructi	
	M Add Media ID: 24 ID: 24 ID: 10 ID: 24 ID: 10	
	Name: 1 24HRS Blood Culture Greater Than 24 Hrs	
	✓ OK X Cancel →	
	Add >24 plates to the plate log:	
	 In the Media Comment line, use the keypad to select the appropriate plates 	
	depending on bottle	
	11 TCOMM 24HRS - 1 of 1	
	12 SUPCR 13 24HRS Key Text	
	A >24hrs: (AERO/PEDS) ^GM1 ^BA-S ^CHO-S N >24hrs: (ANA) ^GM1 ^BA-S ^CHO-S ^BA-2	
	Z NOTE: Result the Media; look for the red checkmark	
	SMIC->24hrs old	
	Aerobic/Pediatric bottle: Anaerobic bottle:	
	GM1	
	BA-C and CHO-C (blood and BA-C and CHO-C (blood and	
2	chocolate plates into CO2) chocolate plates into CO2)	
	BA-2 (blood plate into Anaerobic	
	Tray)	
	Keypad will generate appropriate plates in the lines below the 24 HRS media	
	code (see examples below):	
	Example of a >24HR received aerobic or pediatric bottle:	
	13 24HRS >24hrs: (AERO/PEDS) + GM1 + BA-S + CHO-S 14 GM1	
	15 BA-S	
	16 CHO-S	
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2. PROCEDURE INSTRUCTIONS: CSF

Step	Action
	Volume received: (Tube 2 is the usual tube for Microbiology)
1	• >1mL: Centrifuge at 3500 rpm for 10 minutes (Program 2). Decant supernatant
	into the AcceITB waste container
•	 <=1mL: Inoculate plates using a sterile pipette
	NOTE : If sample is NOT centrifuged \rightarrow add Specimen Quality comment: "Sample not
	concentrated"
	Label the following media/slides:
	BA-C label: Blood Agar Plate
2	CHO-C label: Chocolate Plate
-	MAC-O label: MacConkey Plate
	• 2 labeled ringed cytology slides with the accession number, patient's last name,
	and specimen type
	Using a STERILE pipette, dispense the fluid sediment as follows:
3	1 drop per plate
	• 1 drop per slide in the circle area of the slide. Allow slides to dry on the slide
	warmer
4	Streak all plates for isolation
5	Place the remaining sample sediment in the O ₂ incubator
	Incubate the inoculated plates/media as follows:
6	 BA-C, CHO-C: CO₂ incubator, in tray for CSF
	 MAC-O: O₂ incubator, in tray for CSF
7	Perform Acridine Orange stain (MIC20100) on one smear
	Perform Gram Stain (MIC20115) on the remaining smear
	Viral Culture ordered:
	LIS CODE: VIRO
8	Tube 4 is the usual tube for Viral Cultures
	Transfer CSF from plastic screw top container to a glass red top tube
	• Freeze a -70°C

3. PROCEDURE INSTRUCTIONS: STERILE FLUIDS (NOT CSF/BLOOD)

Step	Action
	Volume received: (Tube 2 is the usual tube for Microbiology)
	 >1mL: Centrifuge at 3500 rpm for 10 minutes (Program 2). Decant supernatant
1	into the AcceITB waste container
	 <=1mL: Inoculate plates using a sterile pipette
	NOTE : If sample is NOT centrifuged \rightarrow add Specimen Quality comment: "Sample not concentrated"
	Label the following media/slides:
2	 BA-C label: Blood Agar Plate BRU-2 label: Brucella Agar LKV-2 label: LKV Agar CHO-C label: Chocolate Plate MAC-O label: MacConkey Plate THIO2 label: Thioglycollate broth ➢ Indicate on the label "2D: {Date 2 days from planting} and "5D:
	{Date 5 days from planting}"
	• 2 labeled ringed cytology slides with the Accession Number, Patient's last name,
	and specimen type
	Using a STERILE pipette, dispense the fluid sediment as follows:
	1 drop per plate
	• 1 drop per slide in the circle area of the slide. Allow slides to dry on the slide
3	warmer
	 2 – 5 drops in Thioglycollate broth.
	 On the THIO label indicate – 2D: (Date 2 days later), 5D: (Date 5 days later)
4	Streak all plates for isolation
5	Place the remaining sample sediment in the O _{2 i} ncubator
	Incubate the inoculated plates/media as follows:
6	 BA-C, CHO-C, CAN-C: CO₂ incubator MAC-O: O₂ incubator BRU-2, LKV-2, CAN-2: Anaerobic jar, O₂ incubator, 48 hours THIO-2: O2 incubator
7	Perform Acridine Orange stain (MIC20100) on one smear
	Perform Gram Stain (MIC20115) on the remaining smear

4. PROCEDURE INSTRUCTIONS: URINE CULTURES

Step	Action
	Label the following media:
1	Blood Agar Plate: BA-O or *BA-C label
	Chocolate Plate: *CHO-C (if specified)
	MacConkey Plate: MAC-O
	Mix specimen by swirling or gentle inversion.
2	Dip a sterile calibrated 0.001 mL loop (green) vertically into the sample just below the
	surface of the urine
	Inoculate with the loop down the centre of the plate and then cross-streak at a 90
	degree angle to the inoculum
3	
	The same loop can be used for each plate per patient sample. The loop must be re-
	dipped for every plate and least selective plates streaked first
	Incubate the inoculated plates as follows:
	 BA-O, MAC-O: O₂ incubator
4	 BA-C, CHO-C: CO₂ incubator
	NOTE : If incubating after 6pm, plates must be placed in a rack that specifies that they
	were incubated after 6pm to ensure adequate incubation time is reached

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5. PROCEDURE INSTRUCTIONS: STOOL CULTURES

Step	Action
	Label the following media:
1	Blood agar, MacConkey agar, Sorbitol MacConkey agar, Hektoen agar x2,
	Campy agar, Yersinia agar and Selenite broth
	Use a cotton-tipped applicator to mix the stool sample and inoculate each plate:
2	Lightly inoculate BA, MAC, SMAC
2	 Use heavier inoculums for the HEK-O, CAM-M and CIN-R as they are more
	selective
3	Place the heavily saturated applicator in the pre-labeled selenite broth and break off the
Ŭ	stick to fit. Recap the tube loosely.
4	Streak for isolation
	Incubate the inoculated plates/ media as follows:
	 BA-O, MAC-O, HEK-O: O₂ incubator
	• CAM-M: Microaerophilic jar, 42°C incubator \rightarrow 72hrs
5	CIN-R: Room Temperature, indicate on label the date to read R: 48hrs later
	• SEL-O: O ₂ incubator
	NOTE: If incubating after 6pm, plates must be placed in a rack that specifies that they
	were incubated after 6pm to ensure adequate incubation time is reached

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6. PROCEDURE INSTRUCTIONS SUPERFICIAL WOUNDS/EARS

Step	Action
	Label the following media:
	 BA-C, CHO-C, CAN-C: CO₂ incubator
1	MAC-O: O ₂ incubator
	 1 glass slides labeled with the accession number, patient's last name and
	specimen type
	Remove the swab from the transport container and swab a quarter-sized inoculum to the
2	left hand side of the plate. Rotate the swab to ensure all areas of the swab are planted
	on the plate. Inoculate all plates in this manner.
	Inoculate the slide by pressing the swab firmly down on the slide to expel fluid. Rotate
3	the swab several times to ensure all areas of the swab touch the slide. Allow slide to dry
	on the slide warmer
4	Streak all plates for isolation plates for isolation.
	Incubate the inoculated plates as follows:
5	 BA-C, CHO-C: CO₂ incubator
	MAC-O: O ₂ incubator
6	Gram stain as per Gram-stain procedure MIC20115

7. PROCEDURE INSTRUCTIONS: DEEP WOUNDS/ASPIRATES

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Step	Action	
	Label the following media/slides:	
	BA-C label: Blood agar	
	CNA-C label AND CNA-2 label: CNA agar	
	BRU-2 label: Brucella agar	
	LKV-2 label: LKV agar	
	CHO-C label: Chocolate agar	
1	MAC-O label: MacConkey agar	
	• Thioglycollate broth: THIO-2 – add "2D: {Date 2 days from planting}" and "5D:	
	{Date 5 days from planting}"	
	Label the frosted end of a glass slide with the Accession Number, Patient's last	
	name, and specimen type	
	NOTE: Plates are determined based on source. Not all plates will be set up for deep	
	wounds/aspirates	
	Remove the swab from the transport container and swab a quarter-sized inoculum to the	
2	left hand side of the plate. Rotate the swab to ensure all areas of the swab are planted	
	on the plate. Inoculate all plates in this manner.	
_	Inoculate the slide by pressing the swab firmly down on the slide to expel fluid. Rotate	
3	the swab several times to ensure all areas of the swab touch the slide. Allow slide to dry	
	on the slide warmer	
	Inoculate a Thioglycollate broth by breaking the swab into the broth or dispensing 2-5	
4	drops of fluid into the broth	
	On the THIO label indicate – 2D: (Date 2 days later), 5D: (Date 5 days later)	
5	Streak plates for isolation	
	Incubate the inoculated plates/media as follows:	
	 BA-C, CHO-C, CNA-C: CO₂ incubator 	
6	MAC-O: O ₂ incubator	
	 BRU-2, LKV-2, CNA-2: Anaerobic jar, O₂ incubator, 48hours 	
	THIO-2: O ₂ incubator	
7	Gram stain as per Gram-stain procedure MIC20115	

8. PROCEDURE INSTRUCTIONS: EYES

a. Superficial eye: conjunctiva, superficial corneal specimens

Step	Action		
	Label the following media:		
	BA-O: Blood agar		
1	CHO-C: Chocolate agar		
	Label the frosted end of a glass slide with the Accession Number, Patient's last		
	name, and specimen type		
	Remove the swab from the transport container and swab a quarter-sized inoculum to the		
2	left hand side of the plate. Rotate the swab to ensure all areas of the swab are planted		
	on the plate. Inoculate all plates in this manner.		
	Inoculate the slide by pressing the swab firmly down on the slide to expel fluid. Rotate		
3	the swab several times to ensure all areas of the swab touch the slide. Allow slide to dry		
	on the slide warmer		
4	Streak plates for isolation		
5	Incubate the inoculated plates as follows:		
	 BA-C, CHO-C: CO₂ incubator 		
6	Gram stain as per Gram-stain procedure MIC20115		

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b. Deep Eye: corneal	scrapings, aq	ueous/vitreous flui	id, keratitis
	oor apringo, aq		a, norantio

Step	Action		
	Label the following media/slides:		
	BA-C label: Blood agar		
	Chocolate Plate: CHO-C label		
	Brucella Agar: BRU-2 label		
1	LKV Agar: KV-2 label		
	MacConkey Plate: MAC-O label		
	• Thioglycollate broth: THIO-2 – add "2D: {Date 2 days from planting}" and "5D:		
	{Date 5 days from planting}"		
	Label the frosted end of a glass slide with the Accession Number, Patient's last		
	name, and specimen type		
	Remove the swab from the transport container and swab a quarter-sized inoculum to the		
2	left hand side of the plate. Rotate the swab to ensure all areas of the swab are planted		
	on the plate. Inoculate all plates in this manner.		
	Inoculate the slide by pressing the swab firmly down on the slide to expel fluid. Rotate		
3	the swab several times to ensure all areas of the swab touch the slide. Allow slide to dry		
	on the slide warmer		
	Inoculate a Thioglycollate broth by breaking the swab into the broth or dispensing 2-5		
4	drops of fluid into the broth		
	• On the THIO label indicate – 2D: (Date 2 days later), 5D: (Date 5 days later)		
5	Streak plates for isolation		
	Incubate the inoculated plates/media as follows:		
	• BA-C, CHO-C: CO ₂ incubator		
6	 MAC-O: O₂ incubator 		
	 BRU-2, KV-2: Anaerobic jar, O₂ incubator, 48hours 		
	THIO-2: O ₂ incubator		
7	Gram stain as per Gram-stain procedure MIC20115		

9. PROCEDURE INSTRUCTIONS: THROATS

Step	Action		
1	Label the following media:		
	BA-1: Blood agar		
	Remove the swab from the transport container and swab a quarter-sized inoculum to the		
2	left hand side of the plate. Rotate the swab to ensure all areas of the swab are planted		
	on the plate. Inoculate all plates in this manner.		
3	Streak for isolation		
4	Incubate the inoculated plate as follows:		
4	 BA-1: Anaerobic jar, O₂ incubator 		

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10. PROCEDURE INSTRUCTIONS: SPUTUMS/ETT/BRONCHIAL WASHES

Step	Action		
	Label the following media/slides:		
	BA-C label: Blood agar		
4	CHO-C label: Chocolate agar		
	MAC-O label: MacConkey agar		
	Label the frosted end of the slide with Accession Number, Patient's last name,		
	and specimen type (SP)		
2	Use a swab to select the most mucoid or muco-purulent parts of the specimen		
	Inoculate each plate and the slide by pressing the swab firmly down on the slide to expel		
3	fluid. Rotate the swab several times to ensure all areas of the swab touch the slide.		
	Allow slide to dry on slide warmer		
4	Streak for isolation. Add a Staph streak to the Blood Plate.		
	Incubate the inoculated plates as follows:		
5	 BA-C, CHO-C: CO₂ Incubator 		
	MAC-O: O ₂ ambient incubator		
6	Gram stain as per Gram-stain procedure MIC20115		

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11. PROCEDURE INSTRUCTIONS: GENITAL CULTURES

Step	Action
	Label the following media/slide:
	BA-C: Blood agar
	CHO-C: Chocolate agar
	TM-C: Thayer Martin agar
	MAC-O: MacConkey agar
1	Label the frosted end of the slide with the Accession Number, Patient's last
	name, and specimen type
	Slides are made on the following samples:
	Genital Culture (CXGEN)
	Gonorrhea Culture (CXGON): site Urethra
	Slides are not made on cervix samples.
	Inoculate each plate and the slide by pressing the swab firmly down on the slide to expel
2	fluid. Rotate the swab several times to ensure all areas of the swab touch the slide.
	Allow slide to dry on slide warmer if one was required
	Incubate the plates as follows:
3	 BA-C, CHO-C, TM-C: CO₂ incubator
	MAC-O: O ₂ incubator
4	Gram stain as per Gram-stain procedure MIC20115

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12. PROCEDURE INSTRUCTIONS: MRO SCREENS

Step	Action		
NOTE	: Due to the incubation requirements, MRSA plates are set up at specific times		
Monda	Monday – Friday: set up at 12pm and 5pm		
Saturday/Sundays: set up before 3pm			
	Label the following media:		
DEN-O: Denim Blue agar			
	For Nose/Groin screen: label half the DEN-O plate with the Nares label		
1	and the other half with the Groin label		
	For other sites tested: label half a DEN-O plate		
	VRE-O: VRE agar		
	Use whole plate		
	Inoculate Denim Blue agar:		
	Inoculate the top-left corner of the Denim Blue agar from the swab, ensuring all		
	surfaces of swab make contact with the agar.		
	 Streak for isolation 		
2	• Streak for isolation		
	Inoculate VRE agar:		
	• Inoculate the plate by pressing the swab firmly down on the slide to expel fluid.		
	Rotate the swab several times to ensure all areas of the swab touch the slide.		
	Streak for isolation		
3	Label the DEN-O plates with: R: (Date 1 day) and time incubated		
	Incubate the plates as follows:		
4	 DEN-O: O₂ incubator, not to exceed 24 hours, in MRSA racks 		
	• VRE-O: O ₂ incubator, 48hours, in urine rack		

13. PROCEDURE INSTRUCTIONS: GROUP B SCREENS

Step	Action		
	Label the following media:		
	BHB-C: LIM Broth/Group B Broth:		
1	BHBBS: Blood agar plate		
	Place the plate in the "SUBCULTURE PLATES" rack located on the		
	metal cart by the BSC		
2	Break the swab off into the LIM broth. Recap loosely		
3	Incubate the media as follows:		
3	LIM Broth: CO ₂ incubator		
	After 18-24hr incubation:		
4	Remove GBS broth from incubator and subculture to the BAP labeled BHBBS		
4	located in the "SUBCULTURE PLATES" metal rack by the BSC		
	 Incubate sub-cultured plate at 35°C in CO₂ incubator for 18-24 hours 		

14. PROCEDURE INSTRUCTIONS: IUDs

Step	Action		
	Label the following media:		
	CMB-C: Cooked Meat broth		
1	BRU-S: Brucella agar		
	Place the plate in the "SUBCULTURE PLATES" rack located on the		
	metal cart by the BSC		
2	Using heat sterilized forceps – place IUD in cooked meat broth		
~	Label CMB broth: 10D: (10 days from inoculation date)		
3	Incubate media as follows:		
3	 CMB-C: O₂ incubator, green rack labeled "THIOs" 		
	After 24hrs incubation:		
	Subculture the CMB to Brucella agar (BRU-S)		
4	Hold Broth for 10 days		
	• Incubate BRU-S plate at 35°C in an anaerobic tray with indicator and small pack		
	for 10 days		

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15. PROCEDURE INSTRUCTIONS: CATHETER TIPS

Step	Action		
	Label the following plates:		
1	BA-C: Blood agar		
	MAC-O: MacConkey agar		
	Using sterilized forceps, roll the segment back and forth 4 times across the surface of		
the Blood agar plate followed by the MacConkey plate using sterile forceps			
	**If the tip is too long, cut the proximal end with sterilized scissors prior to rolling		
	onto plates.		
2	onto plates.		
	Incubate the inoculated plates as follows:		
3	BA-C: CO ₂ incubator		
	MAC-O: O ₂ incubator		

16. PROCEDURE INSTRUCTIONS: ORAL CULTURES

Step	Action		
1	Label the following:		
	SAB-R: Sabouraud dextrose agar		
2	Inoculate plate by firmly rolling the swab over one-sixth of the agar surface and streak		
	carefully for isolation		
	No smear is made		
	Incubate SAB at room temperature for 48 hours		

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REFERENCES:

Clinical Microbiology Procedures Handbook, 4th edition, ASM Press, 2016 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, ASM Press, Washington, D.C.

REVISION HISTORY:

REVISION	DATE	DESCRIPTION OF CHANGE	REQUESTED BY
1.0	11 AUG 2013	Initial Release	A. Darrach
2.0	23 Mar 2017	Update to reflect new procedure changes	L. Steven

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