AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Sciences
Clinical Experience Check List
Clinical Microbiology

STUDENT: _____

CLINICAL SITE: _____

ROTATION DATES: _____

The following pages contain the concepts/basic skills and tasks/test procedures which are to be completed during the Bacteriology Clinical Experience. These concepts/basic skills and tasks/test procedures have been designated as those in which the student must demonstrate competence to perform as an entry-level medical technologist/clinical laboratory scientist at the completion of clinical experience. Each of these concepts/basic skills and tasks/test procedures is numbered and is correlated with the curriculum objectives for this area. Any additional concepts/skills/tasks/test procedures performed at your clinical site which are not contained in the list can be recorded on the blank form at the back.

As the student progresses through the steps of observation, performance, and becomes competent in the various concepts/skills/tasks/test procedures, please verify the learning process by recording the date and your initials in the appropriate space. **IT IS THE STUDENT'S RESPONSIBILITY TO KEEP THIS FORM AND TO HAVE IT AVAILABLE FOR THE SIGNATURE AND DATE AS THE STAGES OF THE LEARNING PROCESS OCCUR.** Upon completion of the clinical experience, the student is to return this form to the clinical supervisor for final review and comments. The form will then be forwarded to AUM for grade determination.

The Concepts/Basic Skills section contains knowledge which medical technology/clinical laboratory science students have been taught during their course work at AUM and basic skills which will be introduced during their clinical experience. These concepts and skills need to be reinforced and used throughout the bacteriology clinical experience. They require ongoing evaluation during the time spent in the Bacteriology Department. Competency will be determined at the end of the clinical experience when, in the professional opinion/judgement of the clinical instructor(s), the concepts and basic skills on this checklist have been completed at an 85% level. An 85% competency level is defined as explaining **each** concept or performing **each** basic skill at an 85% accuracy level. The AUM MLS Faculty considers 85% as that level necessary to perform as an entry-level MLS.

The Tasks/Test Procedure section contains specific functions which the program considers to be the minimal essential functions for an entry- level MLS. The number beside each task/test procedure is the number of times the specific task/test procedure must be completed. The "Required Level of Competency" is the level of accuracy that must be attained with **each** repetition. The student is considered competent when the indicated number of test(s) have been completed at the indicated level of accuracy.

Three levels of achievement have been defined for AUM MLS students during their clinical experience.

Observed The student observes the procedure and/or explains the principle of the procedure, including any required calculations, to the clinical instructor(s).

Performed The student performs the procedure under supervision. At this level the student is integrating the principle of the procedure with the manual skills required for its performance.

Competent The student performs the procedure with a minimum of supervision at the accuracy and skill level expected of an entry-level medical technologist/clinical laboratory scientist.

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Medical Laboratory Sciences
Bacteriology Clinical Experience Checklist
Concepts/Basic Skills

Bacteriology Concepts/Basic Skills	Observed	Performed	Required Level of Competency (%)	Competent
3.0 Follows Safety Guidelines			85	
3.8 Use Personal Protective Equipment			85	
7.0 Quality Control			85	
10.5 Recognize Critical Values and Handles Problems			85	
10.5 Handle Problem Results			85	
10.5 Interpret Abnormal Values and Perform Corrective Action			85	
11.1 Explains protocol for refusal/recollection of inaccurate/improper patient samples.			85	
11.2 Processes Samples			85	
11.3 Correlates requests with proper patient specimen.			85	

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Tasks/Test Procedures

Bacteriology Tasks/Test Procedures	Observed	Performed	Required Level of Competence	Competent
4.0 Demonstrates proficiency in setting up blood cultures. **No. 6**			85	
4.0 Demonstrates proficiency in setting up anaerobic cultures. **No. 2**			85	
4.0 Demonstrates proficiency in setting up Biopsy and/or Tissue Cultures. **No. 2**			85	
4.0 Demonstrates proficiency in setting up Body Fluid Cultures. **No. 2**			85	
4.0 Demonstrates proficiency in setting up CSF Cultures. **No. 2**			85	
4.0 Demonstrates proficiency in setting up Genital Cultures. **No. 2**			85	
4.0 Demonstrates proficiency in setting up Stool Cultures. **No. 2**			85	
4.0 Demonstrates proficiency in setting up *E. coli* O157:H7 cultures. **No. 1**			**85**	
4.0 Demonstrate proficiency in setting up *Campylobacter* cultures. **No. 2**			85	
4.0 Demonstrate proficiency in setting up *Yersinia* and *Vibrio* cultures. **No. 1**			85	

4.0 Demonstrate proficiency in setting up Respiratory cultures (sputum, throat, etc.) **No. 2**			85	
4.0 Demonstrate proficiency in setting up Urine cultures (***1-supra-pubic, 2-cath/foley,*** and ***2-midstream/clean catch***) **No. 5**			85	
4.0 Demonstrate proficiency in setting up Wound cultures. **No. 2**			85	
1.4 Demonstrate proficiency in performing gram-stains **No. 2**			85	
1.4 Interpret gram stains **No. 25**			85	
5.7 Demonstrate proficiency in performing Fluorescent stains for AFB **No. 2**			85	
5.7 Interpret Fluorescent Stain for AFB **No. 5**			85	
5.5 Demonstrate proficiency in performing Kinyoun stains **No. 2**			85	
5.5 Interpret Kinyoun stains **No. 2**			85	
5.1 Demonstrate proficiency in performing rapid biochemical tests for 2-indole, 2-oxidase, 2-PYR, 2-catalase, 2-Beta-lactamase, and 2-coagulase, etc. **No. 2 each**			85	
9.0 Demonstrate proficiency in identifying oral flora and potential pathogens in a Respiratory Culture (sputum, bronch, and throat). **No. 15**			85	
9.0 Demonstrate proficiency in identifying mixed fecal flora and potential pathogens in a stool culture. (O157, *Vibrio*, *Yersinia*, etc.) **No. 15**			85	

9.0 Demonstrate proficiency in identifying organisms in Biopsy/Tissue cultures. **No. 2**			85	
9.0 Demonstrate proficiency in identifying organisms in blood cultures **No. 10**			85	
9.0 Demonstrate proficiency in identifying organisms in CSF cultures. **No. 2**			85	
9.0 Demonstrate proficiency in identifying organisms in Fluid cultures. **No. 5**			85	
9.0 Demonstrate proficiency in identifying organisms in Anaerobic cultures. **No. 5**			85	
9.0 Demonstrate proficiency in identifying pathogens in Genital cultures. **No. 5**			85	
9.0 Demonstrate proficiency in identifying contaminates and potential pathogens in Urine Cultures (midstream/clean catch, foley, cath, and supra-pubic aspiration). **No. 10 each (except supra-pubic-"1")**			85	
9.0 Demonstrate proficiency in identifying contaminates and pathogens in Wound cultures. **No. 10**			85	
6.4 Perform Kirby-Bauer sensitivities **No. 5**			85	
6.4 Perform MIC sensitivities (Microscan, Vitek, E-test, etc.) **No. 5**			85	
14.8 Perform alternative methods for identifying organisms (*Haemophilus/Neisseria*, enterics, etc) **No. 2**			85	
14.9 Perform kit tests for streptococci **No. 2**			85	
15.0 Perform kit tests for *Cryptococcus* **No. 2**			85	

15.1 Identify the presence of RSV(if applicable) **No. 2**			85	
15.2 Perform test procedure for C. diff. **No. 2**			85	

Additional Bacteriology Skills/ Tasks/Test Procedures

Skill/Task/Test Procedure	Observed	Performed	*Required Level of Competency	Competent

* **As these additional procedures are specific to the individual clinical affiliate, the level of competency required is left to the discretion of the clinical instructor(s).**

Comments/Notes:

Each teaching technologist should sign and initial below.

Signature	Initials

Checklist Review

Hospital Representative: _____ Date: _____

AUM Representative: _____ Date: _____