

# Answers to laboratory manual for microbiology

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**What tests are performed in a microbiology lab?**

**What are the 5 basic microbiology?** There are five basic microbiology lab procedures (Five "I's") that are utilized by the microbiologists to examine and characterize microbes namely Inoculation, Incubation, Isolation, Inspection (Observation), and Identification.

**What technique is used in a microbiology lab?** In the microbiology lab we use aseptic technique to: Prevent contamination of the specific microorganism we are working with. Prevent contamination of the room and personnel with the microorganism we are working with.

**What is error in microbiology?** Errors in microbiology laboratory may occur in the pre-analytical, analytical and post analytical stage. Pre-analytical errors may occur from specimen collection, improper labeling or during improper transportation.

**What are the most common microbiology tests?**

**What are the common bacteria used in microbiology lab?** In that case, the commonly used ones are *Bacillus subtilis* (Gm +ve), *Escherichia coli* (Gm -ve). Some also use non-pathogenic strains of *Klebsiella*, *Pseudomonas* and *Mycobacterium smegmatis*.

**What are the 5 bacteria names in microbiology?** Bacteria are classified into five groups according to their basic shapes: spherical (cocci), rod (bacilli), spiral (spirilla), comma (vibrios) or corkscrew (spirochaetes). They can exist as single cells, in pairs,

chains or clusters. Bacteria are found in every habitat on Earth: soil, rock, oceans and even arctic snow.

### **How to remember microbiology?**

**What is basic microbiology for beginners?** Microbiology is the study of microscopic organisms (microbes), which are defined as any living organism that is either a single cell (unicellular), a cell cluster, or has no cells at all (acellular). This includes eukaryotes, such as fungi and protists, and prokaryotes.

### **Which is the most important tool in the microbiology lab?**

**What is a pH meter used in microbiology lab?** The pH meter measures this electric flow and converts it into a corresponding pH value by comparing this generated voltage with that from the reference electrode. Automated pH meters are more advanced than manual pH meters, and can thus be an optimal pH meter in a microbiology lab for several reasons.

**How do you diagnose a microbial infection in the laboratory?** Microscopy may identify microorganisms. Immunofluorescence, immuno-peroxidase staining, and other immunoassays may detect specific microbial antigens. Genetic probes identify genus- or species-specific DNA or RNA sequences. Culture: Isolation of infectious agents frequently requires specialized media.

**Which bacteria cannot be gram-stained?** Gram stain is not useful for organisms without a cell wall like Mycoplasma species, and for smaller bacteria like Chlamydia and Rickettsia species.

### **What are the 5 most common errors occurring in your laboratory?**

**What are the 5 common pre-analytical errors in the laboratory?** The most commonly reported types of pre-analytical error are: a) missing sample and/or test request, b) wrong or missing identification, c) contamination from infusion route, d) haemolysed, clotted, and insufficient samples, e) inappropriate containers, f) inappropriate blood to anticoagulant ratio, and g) ...

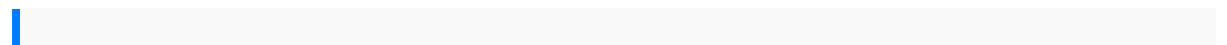
**What does a microbiological test include?** Usually, the specimens of microbiological tests include: specimens taken from skin infections such as pus,

lesions not exceeding the dermis, urine, cerebrospinal fluid ... deep pus includes lesions. Deep wound located below the dermis layer, body fluids such as nasal fluid, pleural fluid, blood, feces ...

**What are four types of specimens that may be tested in a microbiology lab?**

**What are microbiological tests mainly used to investigate?** The microbial limits test is used to estimate the total number of viable organisms within a given finished product, or raw material, and to determine the presence or absence of a specific set of pathogens. Sterility tests are performed in order to determine whether a given Pharmacopeial article is actually sterile.

**What are the diagnostic procedures in microbiology?** A microorganism from a test sample can be detected and identified in any of the four possible ways: (1) cultivation of microorganisms using artificial media or living hosts, (2) direct microscopic examination, (3) measurement of microorganism-specific immune responses, and (4) detection of microorganism-specific ...



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