

Name:
Lab Group:
Date:

LABORATORY REPORT No. 2

Microscopy, Gram Staining, Prokaryotic and Eukaryotic Cells

TASK 1 – Working with a Light Microscope

Describe the parts of a microscope:

- Mechanical part

 - Illuminating part
 - Optical part
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TASK 2 – Gram Staining – Prokaryotic and Eukaryotic Cells (drawing and description)

<i>Escherichia coli</i>	<i>Lactobacillus</i> spp.	<i>Saccharomyces boulardii</i>

Conclusion:

TASK 3: Observation of Plant and Animal Tissues – Eukaryotes (drawing and description)

Wet Mount Slide
<i>Rheo</i> Leaf
Hematoxylin and Eosin stained slide
Buccal Swab

Differences between Plant Cells and Animal Cells

Conclusion:

Characterize the Basic Differences Between Eukaryotic and Prokaryotic Cells

Characteristics	Prokaryotic Cell	Eukaryotic Cell
Organisms	Bacteria and cyanobacteria Mostly unicellular	Protozoa, fungi, plants, and animals Mostly multicellular
Size μm μm
Separated nucleus	YES/NO	YES/NO
Organelles	YES/NO	YES/NO
Ribosomes		
Reproduction		
Respiratory Enzymes	In the plasma membrane	

TASK 4: Hay Infusion – Protozoa

drawing and description

Conclusion:

TASK 5: Observation of Histological Preparations (drawing and description)

Histological Preparations		
1. Fat tissue	2. Lung tissue	3. Testis

Conclusion: