

UNKNOWN BACTERIUM

Data Sheet

Mixed Unknown

You will not necessarily fill out all the blanks on this form; use only what you need.

On the back of this sheet, make a flow chart indicating, step by step, how you arrived at your identification: e.g. why you selected specific tests and stains, how you interpreted the results of those tests and stains, why you did or did not accept a specific test result, etc.

COLONIAL CHARACTERISTICS

Size: _____
Margin: _____
Elevation: _____
Surface: _____
Pigment produced: _____ color: _____
Optimum temperature: _____

MICROSCOPIC MORPHOLOGY

Gram stain: _____
Cell shape: _____
Cell arrangement: _____
Cell size: _____
Motility: _____
Spores or Capsules: _____
Acid fast: _____

DIAGRAMS/NOTES

Student: _____
Unknown #: _____
Species Identification: _____

PHYSIOLOGY

I. FERMENTATIONS

Glucose: _____
Lactose: _____
Sucrose: _____
Mannitol: _____

II. HYDROLYSES

Gelatin: _____
Starch: _____
Casein: _____
Fat: _____
Urea: _____
DNA: _____
Bile Esculin: _____

III. IMVIC TESTS

Indole: _____
Methyl Red: _____
VP: _____
Citrate: _____

IV. MISCELLANEOUS TESTS

Nitrate: _____
H₂S: _____
Decarboxylation: _____
Phenylalanine Deaminase: _____
Oxidase: _____
Catalase: _____
Salt Tolerance: _____
Hemolysis: _____
"P" Disc – Optochin Sensitivity: _____
"A" Disc – Bacitracin Sensitivity: _____
Phenylethyl Alcohol: _____
Eosin Methylene Blue: _____
Hektoen Enteric: _____
MacConkey: _____