

Appliances Used in Haematology

Experiment 3 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify the main haematology appliances and relate each to its measurement

Principle

A reliable blood measurement depends on the measuring principle, calibrated device and specimen handling. Counting chambers measure cells in a known volume; analysers use electrical or optical signals; centrifuges separate components.

Requirements

- Instructor-provided labelled diagrams, traces or data for this activity.
- Calculator, graph paper or spreadsheet, and the activity record.

Procedure

1. Identify

Locate the counting chamber, coverslip, microscope, micropipette, haematocrit tube, centrifuge, haemoglobin instrument and ESR stand.

2. Explain

Record the output, units and calibration or quality-control check for each device.

3. Check the record

Distinguish a manual cell count from an analyser result and an ESR reading from a haematocrit measurement.

Human Anatomy and Physiology

Observations and Record

Record item	Entry
Activity / material identifier	_____
Measurement or visible feature	_____
Comparison / calculated outcome	_____
Interpretation and limitation	_____

Result

The recorded finding is ____; the supporting observation or calculation is _____. The main limitation is _____.

Precautions

- Use the supplied teaching material; distinguish a measured observation from an assumed value.
- Keep units, axes, labels and measurement conditions consistent.
- Record limitations and seek instructor review before applying a conclusion to a live case.

Viva Questions and Answers

1. What is the main endpoint?

Identify the main haematology appliances and relate each to its measurement

2. Does one observed result prove a general conclusion?

No. Controls, repeatability and the limitations of the method must be considered.

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