

Instruments Used in Experimental Pharmacology

Experiment 3 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To understand and record the stated experimental-pharmacology concept.

Principle

An instrument measures a defined endpoint and requires calibration and an appropriate study design.

Key Points

- Identify analgesiometer, electroconvulsimeter, rotarod, actophotometer, elevated plus maze and organ-bath recording system.
- Match latency, activity count, behaviour time and tissue-response recordings to their instruments.
- Read only teaching displays and simulated traces.

Activity Procedure

1. Identify

Inspect photographs or software diagrams of each instrument.

2. Match endpoint

State what each instrument measures and the units or scoring system.

3. Check calibration

List a relevant calibration or data-quality check for the virtual setup.

4. Interpret

Read a supplied output and distinguish the signal from a confounder.

Record and Observations

Field	Teaching record
Model / instrument / route	_____
Endpoint / units	_____
Relevant control	_____
Interpretation / limitation	_____

Result

The concept was explained and the teaching record completed. Key finding: _____. Limitation: _____.

Viva Questions and Answers

1. What does an actophotometer record?

Activity-related counts in its defined detection system.

2. What does rotarod latency describe?

Time before falling from the virtual rotating platform.

3. Why state units?

A response cannot be compared reliably without its measurement scale.

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