Using Pharmacopoeias and Formularies

Experiment 1 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To retrieve an official formula and prepare an accurate working formula.

Principle

A pharmacopoeia defines identity, purity and quality standards; a formulary supplies preparation and use information. A monograph is read as a whole, including its general notices.

Key Points

- Record the edition and exact monograph title.
- Separate ingredient identity, quantity, method, tests, limits, storage and labelling.
- A named preparation may differ between editions; do not combine quantities from different editions.

Practice Scenario

Calculation exercise: a master formula is for 1,000 mL and the required batch is 50 mL. The factor is 0.05; 200 g of a master ingredient becomes 10 g.

Activity Procedure

1. Locate the preparation

Find the assigned monograph and check its official name and strength.

2. Extract the formula

Copy ingredient grades, units and target batch size into a working sheet.

3. Scale

Calculate required/master batch size and apply that factor to all ingredients.

4. Plan evaluation

List required tests and acceptance limits before preparing the product.

5. Check the record

Have the working formula checked and note packaging and label requirements.

Record and Observations

Field	Record
Edition / monograph	_____
Master / working size	_____
Scaling factor	_____
Test / acceptance limit	_____
Storage / container	_____

Result

Complete the record using your activity, then state the findings, the action required and the reason for that action.

Viva Questions and Answers

1. What is a monograph?

An official description and standard for a named pharmaceutical substance or preparation.

2. What is the scaling factor?

Required batch size divided by the master batch size.

3. Does a clear liquid prove quality?

No; the required identity, strength and other tests are also needed.

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