

Study of Herbal-Extract Syrups, Mixtures and Tablets

Practical 05 | Herbal Drug Technology

Aim

To study Herbal-Extract Syrups, Mixtures and Tablets, and interpret the recorded observations.

Principle

- The extract strength and vehicle/dosage form determine the declared content and performance tests. A homogeneous liquid differs from a redispersible mixture or a compressed tablet.
- A dosage form combines an active ingredient with excipients selected for processing, stability and performance.
- Preparation and evaluation are linked: changes in composition or process can alter the product quality attributes.
- Record the material identity, extract/ingredient strength and the method used so the result remains traceable.
- Use the assigned product or material specification; general chemical-class findings alone do not establish clinical effectiveness.

Materials and Apparatus

- Prepared standardized extract, approved oral laboratory formulae and assigned evaluation equipment.
- Assigned active ingredient, excipients and the instructor-approved master formula.
- Balance, mixing/preparation equipment, packaging materials and the assigned evaluation apparatus.

Method

1. Read the master formula and identify the purpose of each ingredient.
2. Calculate the quantities for the assigned laboratory batch and check ingredient identity.
3. Follow the specified order of addition and preparation process, recording actual quantities and process observations.
4. Measure the yield or finished quantity and package the laboratory preparation as specified.
5. Evaluate the product attributes listed for this dosage form with documented methods.
6. Compare the observations with the assigned specification and explain any difference.

Observation Record

Complete this record using actual laboratory findings or the provided teaching data.

Observation / parameter	Record / finding
Dosage form	_____
Extract marker basis	_____
Batch record	_____
Uniformity	_____
Assay	_____
Release or redispersion	_____

Calculations and Interpretation

- Declared marker amount = extract amount incorporated × verified marker fraction.
- Correct the measured result for preparation and dilution before comparing with the declared basis.

Result

Record the actual finding, calculated value with units where relevant, and a conclusion supported by the observations.

Finding: _____

Conclusion: _____

Precautions

- Record changes in process or composition; do not conceal a deviation.
- Use the specification assigned to the exact product and dosage form.
- A teaching batch is for laboratory evaluation and is not released for patient use.

Viva Questions

1. Why identify excipient functions?

Each excipient can influence processing, stability, release or acceptability.

2. Why is appearance alone insufficient for evaluation?

It does not establish content, performance, stability or microbiological quality.

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