Quality Control of Tablets Capsules Emulsions and Injections

Experiment 28 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To relate common dosage forms to their required evaluation tests.

Principle

Quality testing examines identity, strength, performance and suitability for the route; no single test proves all aspects.

Key Points

- Tablets: appearance, mass variation, friability, disintegration, dissolution and specified content tests.
- Capsules: shell integrity, mass/content tests, disintegration and dissolution where applicable.
- Emulsions: droplet/phase observations, redispersion, viscosity and assigned assay.
- Injections: clarity and particulates, strength, pH, sterility, endotoxins and container integrity as applicable.

Activity Procedure

1. Select tests

Read the assigned monograph and identify method, instrument and acceptance limits.

2. Observe the demonstration

Record tablet, capsule, emulsion and injectable test demonstrations.

3. Calculate

Show any individual or mean mass calculations using units.

4. Report

Compare actual observations with the stated limit and distinguish a screening observation from a release test.

Record and Observations

Dosage form	Test / result / assigned limit
Tablet	_____
Capsule	_____
Emulsion	_____
Injection	_____

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. Is disintegration the same as dissolution?

No; breaking apart is different from the drug dissolving.

2. What does friability examine?

Mechanical resistance to abrasion under the defined test.

3. Can an injection be released after visual inspection alone?

No; the complete assigned quality and process requirements are needed.

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