Stages of Tablet Manufacturing

Experiment 26 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To identify each stage of tablet manufacture and its quality controls.

Principle

A manufacturing process links material properties, controlled operations and finished-product quality.

Key Points

- Direct compression and wet granulation are different routes.
- Blending, granulation, drying, sizing, lubrication and compression each have a purpose.
- In-process controls detect variation before the batch is completed.

Activity Procedure

1. Map the route

Create a flow chart for the assigned direct-compression or wet-granulation route.

2. Observe equipment

Identify mixer, granulator, dryer, sieve and press using the teaching demonstration.

3. Link each stage to a risk

Relate poor blend uniformity, excess moisture and over-lubrication to quality.

4. Record controls

Enter material checks, process settings and tablet observations from the demonstration.

Record and Observations

Stage	Purpose / observation
Blending	_____
Granulation / drying	_____
Sizing / lubrication	_____
Compression	_____
In-process checks	_____

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. Why dry granules?

To bring residual moisture to the assigned process target.

2. Why add lubricant late?

Excess mixing with lubricant can change compression and release behaviour.

3. What is an in-process control?

A check during manufacture that helps maintain the specified process and product quality.

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