

Nux Vomica - Macroscopy Powder and Microscopy

Experiment 13 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To describe the authenticated seed material of Nux Vomica and record supporting identity characters.

Principle

A crude drug is identified from a combination of botanical source, plant part, external morphology and microscopic evidence. Common fragments are not sufficient on their own.

Requirements

- Authenticated Nux Vomica specimen and supplied powder or prepared slide.
- Microscope, measuring scale, slide tools and the assigned species atlas.

Procedure

1. Establish source

Record *Strychnos nux-vomica*; Loganiaceae. State the specimen code and the supplied plant part.

2. Macroscopic study

Disc-like seeds with a silky surface and a depressed central region. Measure size, colour, surface and fracture without tasting the material.

3. Section study

Orient the prepared section, identify outer and inner tissue regions and draw a labelled outline.

4. Powder study

Characteristic seed-coat hairs and endosperm in prepared images. Record only the structures actually observed and the magnification used.

5. Compare and conclude

This toxic material is examined as an authenticated specimen or prepared slide; no tasting or unsupervised powder handling. Compare the combined evidence with the assigned authenticated specimen.

Pharmacognosy and Phytopharmaceuticals

Observations and Record

Record	Observation
Source / plant part / code	_____
Macroscopic characters	_____
Section tissues and drawing	_____
Powder fragments / magnification	_____
Supported identity and limitation	_____

Result

Nux Vomica specimen code: _____. Plant part: _____. Supporting features: _____. Comparison outcome and limitation: _____.

Precautions

- Never taste crude drugs; toxic specimens require the assigned contained handling or prepared material.
- Record botanical source and plant part instead of relying only on the commercial name.
- Distinguish expected comparison characters from features actually seen.

Viva Questions and Answers**1. What is the examined plant part?**

Seed.

2. Which features support the comparison?

Disc-like seeds with a silky surface and a depressed central region. Characteristic seed-coat hairs and endosperm in prepared images.

3. Does one common fragment establish identity?

No. Use the combined specimen and microscopic evidence.

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