

Cassia Cinnamon - Macroscopy Powder and Microscopy

Experiment 5 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To describe the authenticated bark material of Cassia Cinnamon 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 Cassia Cinnamon specimen and supplied powder or prepared slide.
- Microscope, measuring scale, slide tools and the assigned species atlas.

Procedure

1. Establish source

Record *Cinnamomum cassia*; Lauraceae. State the specimen code and the supplied plant part.

2. Macroscopic study

Thicker curved bark pieces or quills compared with many true-cinnamon specimens. 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

Cork, phloem fibres, stone cells and secretory cells in the assigned bark section. Record only the structures actually observed and the magnification used.

5. Compare and conclude

Record the named species; cassia cinnamon and true cinnamon are distinct materials. 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

Cassia Cinnamon 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?**

Bark.

2. Which features support the comparison?

Thicker curved bark pieces or quills compared with many true-cinnamon specimens. Cork, phloem fibres, stone cells and secretory cells in the assigned bark section.

3. Does one common fragment establish identity?

No. Use the combined specimen and microscopic evidence.

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