Evaluation of Acacia

Experiment 33 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To evaluate the assigned acacia specimen using organoleptic, physical and characteristic tests.

Principle

Evaluation assesses identity and quality using a combination of source, physical behaviour and prescribed tests. Dried gum exudate from assigned acacia source.

Specimen Features

- Pale irregular or rounded gum tears.
- Hydration behaviour and official identity/purity tests are separate evidence.

Requirements

- Authenticated material and coded teaching specimen
- Assigned monograph, balance, glassware and prescribed reagents
- Controlled heating equipment where the method requires it

Procedure

1. Profile

Record the source, supplied form and visible features. Pale irregular or rounded gum tears.

2. Physical behaviour

Carry out the assigned dispersion, dissolution, swelling or gel test using matched conditions.

3. Characteristic test

Observe hydration and the assigned colloidal water-solution test; compare with tragacanth.

4. Quantitative test

Where assigned, perform the official moisture, ash, viscosity, acid-value or other selected quality test.

5. Assess

Compare actual results with the named method and limit. Hydration behaviour and official identity/purity tests are separate evidence.

6. Report

State identity support, quality findings and any test that was not performed.

Observations and Record

Check	Actual observation
Source / appearance	_____
Physical behaviour	_____
Characteristic test	_____
Quantitative result / units	_____
Assigned limit / conclusion	_____

Worked Example

The numbers below are illustrative; enter your own observations in the record.

- For a teacher-assigned swelling-index record: index = volume occupied after the defined hydration period (mL) / dry mass (g).
- Illustrative data: 1.00 g occupies 8.0 mL; index = 8.0 mL/g. The method conditions and applicable limit must be stated.

Result

The specimen was _____. Tests performed: _____. Observed quality findings and applicable limits: _____.

Precautions

- Do not taste the specimen or deliberately inhale fumes.
- Match quantities, temperature and observation time when comparing materials.
- Use the laboratory's approved solvent and reagent controls.

Viva Questions and Answers

1. Why combine tests?

Appearance or one colour reaction may be shared by adulterants or related materials.

2. What is the distinguishing context?

Hydration behaviour and official identity/purity tests are separate evidence.

3. Can a worked number be entered as an observation?

No; the student records actual measured or demonstrated data.

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