

Evaluation of Asafoetida

Experiment 28 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

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

Principle

Evaluation assesses identity and quality using a combination of source, physical behaviour and prescribed tests. Oleo-gum-resin from assigned *Ferula* species.

Specimen Features

- Irregular resinous tears or masses; strong characteristic sulphurous odour without deliberate inhalation.
- Use the assigned official tests for resin, volatile fraction and extraneous matter; odour alone does not establish purity.

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. Irregular resinous tears or masses; strong characteristic sulphurous odour without deliberate inhalation.

2. Physical behaviour

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

3. Characteristic test

Observe the prescribed water dispersion, which may form a milky emulsion; identify gum and resin behaviour.

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. Use the assigned official tests for resin, volatile fraction and extraneous matter; odour alone does not establish purity.

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	_____

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?

Use the assigned official tests for resin, volatile fraction and extraneous matter; odour alone does not establish purity.

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

No; the student records actual measured or demonstrated data.

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