

Evaluation of Benzoin

Experiment 29 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

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

Principle

Evaluation assesses identity and quality using a combination of source, physical behaviour and prescribed tests. Balsamic resin from assigned *Styrax* species.

Specimen Features

- Brownish brittle tears or masses; the cut surface varies with the source type.
- Distinguish source-specific monographs; do not assume all commercial benzoin has identical appearance.

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. Brownish brittle tears or masses; the cut surface varies with the source type.

2. Physical behaviour

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

3. Characteristic test

Observe dissolution in the assigned alcohol and precipitation of resin on controlled water addition.

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. Distinguish source-specific monographs; do not assume all commercial benzoin has identical appearance.

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?

Distinguish source-specific monographs; do not assume all commercial benzoin has identical appearance.

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

No; the student records actual measured or demonstrated data.

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