

Gelatin - Chemical and Physical Identification

Experiment 27 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To record identity evidence and gel-forming behaviour of gelatin.

Principle

Gelatin is a protein-derived material that can be examined through protein reactions and physical gel behaviour under specified conditions.

Requirements

- Assigned gelatin sample, authorised protein-test reagents and prepared comparison material.

Procedure

1. Describe

Enter the material code, appearance and assigned source information.

2. Dispersion and gel

Follow the assigned warming/cooling demonstration and record dispersion, setting and reversal behaviour.

3. Protein evidence

Perform the prescribed protein identity reaction with a valid comparison; record the visible response.

4. Report

Combine physical and chemical evidence and note that gel strength requires a separate defined quantitative method.

Pharmacognosy and Phytopharmaceuticals

Observations and Record

Record	Entry
Material / code	_____
Dispersion and setting observations	_____
Assigned protein reaction	_____
Control and identity conclusion	_____

Result

Record the completed observations, calculations and conclusion with units. State any limitation of the observation.

Precautions

- Control the stated temperature and concentration when comparing gels.
- A positive protein reaction is not specific to gelatin without the remaining evidence.

Viva Questions and Answers**1. Why can gelatin gel behaviour change?**

Concentration, temperature and material properties affect the observed gel.

2. Does gel appearance measure gel strength?

No. Strength requires a defined quantitative test.

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