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.

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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