Preparation and Assessment of Folin-Wu Filtrate

Experiment 8 - Practical Notes

Name: _____ Roll no.: _____ Date: _____

Aim

To explain protein removal and assess an instructor-supervised Folin-Wu teaching filtrate.

Principle

Deproteinisation separates precipitated protein from soluble components before the specified reducing-sugar measurement. Filtrate quality and the dilution created by the preparation affect the subsequent calculation.

Requirements

- Approved teaching material, prescribed deproteinising system and supervised demonstration.
- Suitable separation equipment, labelled receiver and record.

Procedure

1. Confirm the preparation

Record original material volume, reagent volumes and the assigned final mixture basis.

2. Observe deproteinisation

Follow the instructor demonstration and record protein-precipitate appearance.

3. Assess the filtrate

Inspect the supplied clear filtrate for residual turbidity and confirm its label and assigned use.

4. Calculate the dilution

Relate the original material to the effective filtrate volume; carry the stated factor into the next assay.

Observations and Record

Stage	Observation / quantity
Original volume	_____
Effective final volume	_____
Filtrate clarity	_____
Dilution factor	_____

Worked Example

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

- Dilution factor = effective final volume ÷ original material volume, when the prescribed method uses this volumetric basis. Example: 10 mL ÷ 1 mL = 10.

Result

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

Precautions

- Use the prescribed protein-removal method and labelled material.
- A visibly turbid filtrate can interfere with optical readings.
- Account for the method-defined dilution; do not apply it twice.

Viva Questions and Answers

1. Why remove protein?

To reduce interference in the selected analytical reaction.

2. Is a filtrate result the original blood concentration?

Only after the method's dilution and calibration basis are correctly applied.

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