



Product Overview

The Determination of Protein Concentration Using Colorimeter System is designed for quantitative analysis of protein concentration in biological samples using colorimetric methods. The setup is suitable for routine laboratory experiments, biochemical analysis, and educational demonstrations.

System Components

1. Colorimeter
2. Protein Sample
3. Standard Protein Solution
4. Reagents
5. Test Tubes
6. Pipette

Technical Specifications

1. Colorimeter

- Type: Digital colorimeter
- Wavelength Range: 400 – 700 nm
- Optical Filters: Suitable for protein assays (e.g., 540 nm / 595 nm)
- Display: Digital LCD
- Measurement Mode: Absorbance / Transmittance
- Power Supply: 220–240 V AC / Battery operated

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- Application: Measurement of optical density of samples

2. Protein Sample

- Type: Biological protein sample
- State: Liquid
- Concentration Range: As per experimental requirement
- Storage: As recommended for sample stability

3. Standard Protein Solution

- Type: Known concentration protein standard (e.g., BSA)
- Concentration Range: Laboratory standard
- Application: Calibration and standard curve preparation

4. Reagents

- Type: Color-developing reagents (e.g., Biuret / Lowry / Bradford)
- Form: Liquid / Powder
- Storage Conditions: As specified by manufacturer
- Application: Development of color proportional to protein concentration

5. Test Tubes

- Material: Borosilicate glass / transparent plastic
- Capacity: 5 – 15 ml
- Chemical Resistance: High
- Application: Sample preparation and reaction

6. Pipette

- Type: Graduated / Micropipette
- Volume Range: 0.1 – 10 ml
- Accuracy: $\pm 1\%$
- Material: Chemical-resistant plastic / glass
- Application: Accurate liquid handling

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