POLARIMETRY
Mod. C-AV-49/EV

47-A

DESCRIPTION

Through this apparatus the rotation of the polarisation plane is measured through a sugar solution with a polarimeter and the constant for the reaction rate for the inversion of sugar is determined. The specific rotation of sucrose and lactose is determined through the measurement of the rotation of various solutions of known concentration. The reaction constant is then determined when the sugar cane is converted into inverted sugar.

TRAINING PROGRAM

- Optical rotatory power
- Optical activity
- Specific rotation
- Reaction speed
- Weber-Fechner's law

COMPONENTS

- Polarimeter
- Thermostatic bath
- Digital stopwatch
- Support clamp
- 2 clamp holders
- 2 beakers, 250 ml
- 2 measuring cylinders, 100 ml
- Graduated cup
- Funnel
- Spatula
- Glass stirrer
- Pipettes with rubber bulb
- Scale
- Support base with rod
- Chemical reagents:
  - D (+) - Sucrose
  - Hydrochloric acid 37%
  - Distilled water
  - D (+) - lactose

SUPPLIED WITH

THEORETICAL - EXPERIMENTAL HANDBOOK

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