



Half Shade Polarimeter is a useful apparatus for understanding the concept of polar brightness of two halves in the field of view. The apparatus is based on Biot's Law. When a plane polarized light is passed through an optically active substance, the plane of polarization of light gets rotated. In order to find out the effect of relative rotation between the polaroids on intensity of transmitted light, we are using a half wave plate. Comparing the brightness of the two halves of half wave plate, one can easily find out the optical rotation produced by an optically active substance in solution form.

Technical Specifications:

Polaroid :

Thickness : 0.1 mm
 Diameter : 26 mm
 Type : Nitrocellulose polymer

Half wave plate :

Wavelength : 589 nm
 Type : Half shade

Objective lens :

Type : Double Convex
 Focal length : 50 mm

Eye piece :

Type : Double Convex
 Focal length : 230 mm

Polarimeter tube :

Length : 100 mm(1dm)
 Material : Borosilicate
 Volume : 23 ml

Optional :

Sodium vapour lamp :

Wavelength : 5893
 Wattage : 35W

Lamp has to be connected with provided external power supply.

Digital Balance

Beaker

Measuring cylinder

Photographs are for reference only final product may vary from it

MANUFACTURED BY:

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