

Product Name :
Polarimeter

Product Code :
PHARMACEUTICAL SUK-
AS03LAB038A



Description :

Polarimeter

Technical Specification :

For better accuracy in determination of specific rotation, half shade polarimeter is used which involves comparing the brightness of two halves in the field of view. Polarimeter is a useful apparatus for understanding the concept of polarization. With the help of half shade polarimeter, polarization can be studied as well as analyzed.

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 an 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.

Features :-

Circular scale graduated from 0 to 360 degree.

Polarimeter borosilicate glass tube with bubble trapper in the middle.

Sodium vapour lamp light source.

Adjustable height.

Learning material CD.

Scope of Learning.

Determination of the specific rotation of sugar solution using Half Shade Polarimeter.

Study of variation of angle of rotation of sugar solution with its concentration.

Study of optical rotary dispersion of sugar solution or to determine the

dependence of angle of rotation of sugar solution on the wavelength of light (Optional).



Astra Scientific

www.astrascientific.com, **Email:** info@astrascientific.com

Address: K-88, 20th Street, Annanagar, Chennai, India – 600040 **Phone:** +91-8860605265