

Polarimeters

Concentrations and purity of optically active substances can be easily determined with polarimeters. Optically active material affects linear polarised light such that the rotation of the polarisation plane is proportional to the concentration of chiral molecules in the substance.

The rotation angle of the polarisation plane of linear polarised light, is different for each optical active substance as described in the Law of Biot. Polarimetry is a non-destructive test method for measuring optical activity of organic and inorganic substances. It is very useful to analyse expensive non-reproducible samples. Polarimeters are extensively used for quality and process control in research laboratories in the chemical and food industry

Polarimeter of Mitscherlich

The polarimeters are delivered with 100 and 200 mm observation tubes.

The Euromex PM.5400 is equipped with a 589.3 nm filter, a removable Tungsten light source and an international sugar scale (°S).

The Novex 99.400 is equipped with a built-in 230 V 589.3 nm sodium lamp



PO.5400



99.400

Polarimeter of Mitscherlich

Art no	Range	Accuracy
PM.5400	± 130°	0.1° polar scale
	± 110°	0.1° sugar scale
99.400	± 180°	0.1° polar scale

Accessories

For refractometers

- RF.5295** Test plate 78.8 Brix for calibration of RF.5190, RF.5282 and RF.5292
- RF.5384** 5 ml immersion fluid nD 1,79 for RF.5381 and RF.5382
- LE.5209** Cold light source 20W ,12V with glass fibre
- SL.5208** Spare halogen bulb
- 98.492** Spare thermometer 0-50° C for Abbe refractometer 98.490
- 98.496** Calibration plate nD 1.5163 for Abbe refractometer 98.490

For Euromex polarimeter PM.5400

- PM.5410** Observation tube 100 mm
- PM.5415** Observation tube 200 mm
- PM.5430** Cover glass Ø15 mm for observation tubes
- PM.5431** Rubber seal for PM.5430
- SL.5197** Spare bulb 230V, 30W

For Novex polarimeter 99.400

- 99.410** Observation tube 100 mm
- 99.415** Observation tube 200 mm
- 99.430** Cover glass Ø15 mm for observation tubes
- 99.431** Rubber seal for 99.430
- 99.197** Spare sodium bulb, 589.44 nm



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