

Photo Fluorometer

Digital Photo Fluorometer

681



1 Year
Warranty

Advantages

- 3 Digit Seven Segment LED Display
- Covers Entire Visible Range
- Determines The Concentration Of
& Fluorophors & Quinine

Digital Photo Fluorometer Model 681 is designed for precise analysis of fluorophors such as vitamins, quinine, steroids, fluorescein, metal complexes, etc. The Fluorescence is caused by the absorption of radiant energy and the re-emission of some of its energy in the form of light. In fluorescence, the excited molecule returns to the ground state immediately after excitation, when the fluorescent molecule is excited at the fixed wavelength (primary filter). The amount of light emitted is measured at the particular wavelength (secondary filter). Fluorometer method for the determination of fluorophors is more sensitive than the Colorimetric method.

The Primary Filters - Corning 5840 & Corning 5113 and secondary filters - Corning 4308, Corning 3486 and Corning 3385 mounted on holders are supplied with the instrument. The fluorescence is collected at 90 degree angle to minimize the interference of excitation source to fall on the sample solution only during a measurement.





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Technical Data

MODEL	681
FLUORO SENSITIVITY	Full scale deflection obtained with 1 ppm quinine sulphate in 0.1 N sulphuric acid (primary wavelength 360 nm)
DISPLAY	3 digit 7 segment Red LED
EXCITATION SOURCE	12V, 50 W Tungsten Halogen lamp
SENSITIVITY RANGE	Adjustable in 4 ranges
PRIMARY FILTERS	Corning 5840 and Corning 5113 mounted on holders
SECONDARY FILTERS	Corning 4308, Corning 3486 and Corning 3385 mounted on holders
DETECTOR	Highly sensitive wide range Photodiode/Photocell
SAMPLE TEST TUBES	15 mm (D) x 80 mm (H)
MINIMUM SAMPLE	4 ml
POWER	230 V \pm 10% AC, 50 Hz.
WEIGHT	4.5 Kg (approximately)
DIMENSIONS	260 x 335 x 160mm (LxBxH)
ACCESSORIES	
TEST TUBES	A Set of 5
DUST COVER	1 No.
INSTRUCTION MANUAL	1 No.
PRIMARY AND SECONDARY FILTERS	A Set of 5

Specifications are subject to change due to continuous improvements

Product Range

Semi Auto Analyser, Single Beam and double Beam UV/VIS Spectrophotometer, Flame Photometers, Haemoglobin Meter, Digital pH, Meter, Digital Photo Fluorometer, Digital Conductivity Meter, Digital Photo Colorimeter, Turbidity Meter, Auto KF Titrimeter, Digital DO Meter, Digital Conductivity Meter, Digital TDS Meter, Temperature Indicator, Digital Telethermometer, Water & Soil Analysis Kit, Digital Salinity Meter, Digital Colony Counter, Portable pH Meter, Portable Conductivity Meter, Portable TDS Meter, Portable DO Meter, Digital Tablet Disintegration Apparatus, Digital Friability Test Apparatus Tablet Dissolution Test Apparatus, Melting Point Apparatus, Student Microscope, Binocular microscope, Medical Microscope, Co-Axial Microscope.