

CIRRUS 80MB SPECTROPHOTOMETER

Main Specifications



Scanning UV-VIS with two independent channels of measurements, one for DNA samples without dilution and path length of 0,1; 0,2; 0,5 mm; another for general use with 10 mm cells.

Wavelength range: 190 to 1100 nm

Spectral bandwidth: 5 nm

Wavelength increments in 0,1 nm

Detectors: 2 silicon photodiodes

Graphic display: 128 x 64 pixels, with backlit

Printer: graphic, thermal, 203 dpi, 58 mm (paper width)

Monochromator: Wadsworth; diffraction grating: 1200 lines/mm

5 Optical filters with automatic change

Stray light: 0,1%T at 220 and 340 nm

Wavelength accuracy: +/- 1 nm from 190 to 400 nm and +/- 2 nm from 401 to 1100 nm

Scanning speed: 325 nm/min (increments: 5 nm)

Photometric range: Absorbance: -0,3 to 3,0 Abs

Transmittance: 0 to 200% T

Photometric accuracy: 0,005 Abs from 0,0 to 0,3 Abs

Photometric noise: 0,002 Abs at 0,0 Abs

Drift: 0,003 Abs/hour

Keyboard: 30 alphanumeric keys and more 4 function keys

Lamp: tungsten-halogen 2000 hours and Deuterium 1000 hours.

Interface: Serial RS 232C

Power requirements: 117 / 220 V (+/- 10%) manual selection of voltage; 50/60 Hz; 150 VA

Dimensions: 35 W x 44 D x 20 H (cm)

Net Weight: 9 Kg

Total Weight: 13 Kg

Manual and display: Portuguese, Spanish and English

Software: FEMWL 80MB-R1

- Parameters for DNA, RNA and oligonucleotide: quantification and purity;
- Determination of protein: Bradford, Lowry, BCA, Biuret and UV methods
- Multi wavelength: Abs ratio, Abs difference with 2 or 3 wavelengths
- Bacteria cell growth: 600 nm or any other wavelength
- Graph of Absorbance x Wavelength
- Graph of Linear regression
- Upload results via serial interface to PC (Microsoft-HyperTerminal - Windows XP)
- Can store up to 221 methods (21 defined methods and new 200 methods can be created)
- Can store the last 500 results

Standard Accessories

1 Quartz circular cell 0,2 mm (path length)

10 Thermal paper rolls for printer

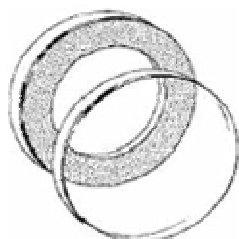
1 Dust Cover

1 Main power cable

1 CD - Installation and Operation Manual

Optional Accessories Or Spare Parts

Description	Code
Peltier temperature controlled 10 mm cell holder. Temperatures 25, 30 and 37° (+/- 0,2°C). Kinetic program	50.013
Kit of 10 thermal paper rolls for printer	50.009
W lamp in holder - pre calibrated	50.001
Deuterium lamp 1000 hours	10.008
Quartz circular cell 0,1 mm path length	10.239
Quartz circular cell 0,2 mm path length	10.240
Quartz circular cell 0,5 mm path length	10.241
Quartz ultra micro 50 µL cell 10 mm path length	10.263
Quartz, square cell 10 mm path length	10.034
Plastic ultra micro volume 75 µL cell, 10 mm path length; wavelength range 220 – 900 nm	10.243
Serial converter cable / USB	00.971



10.239 / 10.240 / 10.241



10.034



10.243



10.263

Subject to change without notice
Illustrations do not represent the actual size