SmartSpec[™] 3000 Spectrophotometer

This instrument is a scanning tabletop UV/visible spectrophotometer that measures absorbance from 200 nm to 800 nm. It is ideal for:

 Quantitation of PCR products, cloning, sequencing and protein quantitation plus monitoring cell culture growth

The SmartSpec 3000 Unit Features Include:

- Direct display of absorbance and concentration (μ g/ml; for oligos in pmol/ μ l and μ g/ml)
- Construction and storage of standard curves, and determination of unknown sample concentration
- Wavelength scanning
- Kinetic assays
- Exclusive built-in printer to record results immediately

Use as a Calculator for Quick Conversions to Standard Units

A₂₆₀/A₂₈₀ ratio for nucleic acid purity check

SmartSpec 3000

BIO FAD

- Background correction at 320 nm
- Concentration determination in μg/ml and, fc oligos, in pmol/μl and μg/ml
- Calculation of molar extinction coefficient and molecular weight of oligonucleptices based upon sequence, length or composition
- Built-in functions for nucleic acid quantitation
 Lowry, Bradford, BCA protein assays and quantitation of proteins in nucleic acid backgrounds
 Monitoring cell calture growth
- at O.D.

Touch-Button Operation

The SmartSpec 3000 spectrophotometer's user-friendly interface guides you through computations at the touch of a button. You can store conversion factors and overwrite them as your needs change. Up to ten standard curves can be stored under user-assigned names. In addition, samples and standards can be analyzed in groups of up to nine replicates. The SmartSpec 3000 device computes the methand standard deviation to each replicate group.

le've Taker Care of All the Details

e Croan Spec 3000 apectrophotometer was signed with your needs in mind. It offers a monation of fragures and conveniences you on't find to be spectrophotometers.

The built of initial records results immediately; there's to need to carry a laboratory notebook R5-232 serial port for output to a serial printer or computer

wo cuvette storage compartments so cuvettes are right where you need them

An advanced xenon flash lamp with lifetime guarantee

And So Much More!

Reading data is easy with the alphanumeric back-lit LCD display. Sample ID, operator name, date and time log of your day's work can be printed for GLP purposes. The SmartSpec 3000 spectrophotometer's built-in real time clock is Year 2000 compliant. This compact and affordable instrument is an indispensable tool in every molecular biology laboratory.

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by www.raeservices.com

To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>> www.raeservices.com/services/quote.htm SCIENCE research



A comparison of spectrophotometric measurements using the SmartSpec 3000 unit and a high-priced spectrophotometer at $A_{260'}$, $A_{595'}$, A_{750} nm. The yellow line is the trend.

* The Polymerase Chain Reaction (PCR) Process is covered by patents owned by Hoffman-LaRoche. Use of the PCR process requires a license. Cibacron is a trademark of Ciba Specialty Chemicals.

Standard 1–3.5 ml cuvette, quartz

Sub-microvolume 50-100 µl, quartz

polystyrene disposable cuvettes, 100

Semi-microvolume 700 µl, quartz

Microvolume 250 µl, quartz

For additional information on this product, circle Response Number 2404, or visit our web site at discover.bio-rad.com.

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