

A DEDICATED LIFE SCIENCE BASED INSTRUMENT WITH STORED ROUTINES FOR NUCLEIC ACID, PROTEIN AND CELL DENSITY MEASUREMENTS.

Biowave DNA

Life Science Spectrophotometer

A WORKHORSE FOR THE MOLECULAR BIOLOGIST



- NOVEL GIFFORD OPTICS FOR HIGH ENERGY COMBINED WITH A XENON SOURCE FOR LONG LAMP LIFETIME
- SIMPLE SELECTION SOFTWARE WITH STORED METHODS FOR LIFE SCIENCE APPLICATIONS
- FULL GRAPHICS DISPLAY
- NUCLEIC ACID SCANS FOR PURITY CHECKING.
- INTEGRATED PRINTER (OPTION)
- COMPACT SPACE SAVING DESIGN
- COMPATIBLE WITH LOW VOLUME CUVETTES
- UNIQUE, INTEGRAL CUVETTE TRAY FOR SECURELY HOLDING EXPENSIVE CELLS AND VALUABLE SAMPLES

The Biowave DNA has been specifically designed for life science applications and is a powerful tool for the laboratory that requires a dedicated instrument for the determination of nucleic acid purity and concentration, protein concentrations or cell density measurements.

The system utilises Gifford Optics for high energy throughput, a Xenon light source for long lamp lifetimes together with simple selection software and large graphical display for ease of use and data interpretation. The stored methods include DNA, RNA and oligonucleotide calculations, protein assays such as direct UV measurement, BCA, Biuret, Bradford and Lowry and cell density measurement. Unlike many dedicated life science instruments the Biowave DNA can also measure Absorbance or concentration at any wavelength so there is complete flexibility for future applications.

For added convenience it is possible to display a scan of the nucleic acid profile which is particularly useful for RNA samples where impurities may be present in the 230 nm region, yet not have an adverse effect on the 260/280 Absorbance ratio. The system is compatible with both Quartz and disposable low volume UV cuvettes.

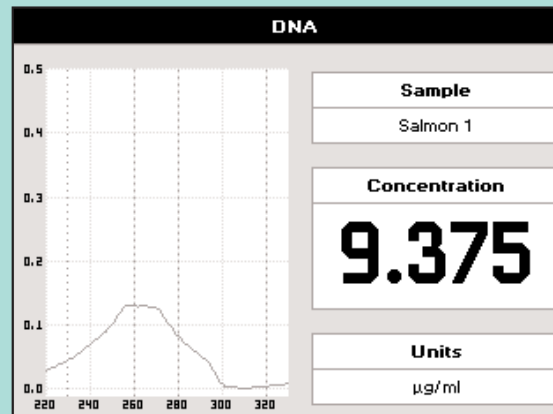
Results may be printed to an optional integrated high quality graphical printer for a permanent record or exported via a USB connection to a suitable PC running optional Print Via Computer (PVC) software for advanced reporting or data storage.

Biowave DNA

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HOME PAGE

The Biowave DNA is optimised for the life scientist who is involved in nucleic acid quantification or protein determinations. System set up could not be easier using the simple selection software together with the pre-stored methods for all aspects of DNA, RNA, Oligonucleotides, proteins and cell culture determinations.



DNA SCAN

The standard nucleic acid methods include the ability to display a wavelength scan of the region. This allows a visual check for impurities and this data may be printed or exported as additional proof of analysis.

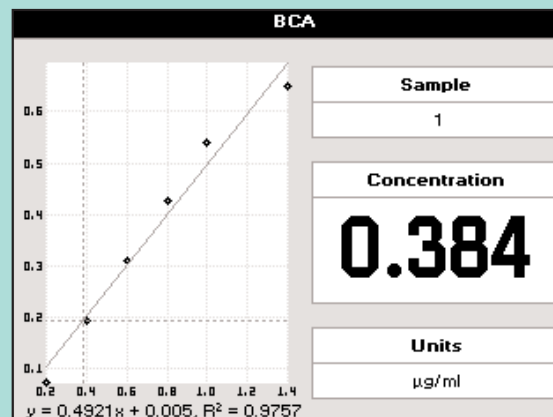
DNA

A230	0.045 A	Sample Salmon 1
A260	0.130 A	
A280	0.084 A	
A320	0.005 A	
A260/A280 1.582		Concentration 9.375
A260/A230 3.125		
		Units µg/ml

NUCLEIC ACIDS

The instrument displays 260/280 and 260/230 ratios plus concentration including compensation for pathlength and dilution factor. Background correction is available at 320nm if required for buffer compensation or when using reduced aperture cells.

All the data is displayed on one screen for convenience.



PROTEINS

Pre-stored protein methods include direct UV measurement, BCA, Bradford, Lowry and Biuret with the option of curve fitting routines on up to 9 standards in triplicate. The calibration curve is displayed with statistical data as part of the comprehensive data handling routines and the curve can be stored for future use.



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WPA belongs to the Biochrom group of companies.

Technical Specifications

Stored methods	9
Wavelength accuracy	± 2nm
Photometric reproducibility	± 0.002A at 0-0.5A, 546nm
Photometric accuracy	± 0.003A at 0-0.5A
Outputs	USB
Dimensions (W x D x H)	260 x 390 x 100mm
Weight	<4.5 kg

Ordering Guide

Biowave DNA UV/Visible Life Science Spectrophotometer	80-3004-70
Biowave DNA UV/Visible Life Science Spectrophotometer with printer	80-3004-71
Printer accessory	80-3003-84
Spare printer paper (20 rolls)	80-3004-07
Print via computer software and cable	80-3004-73