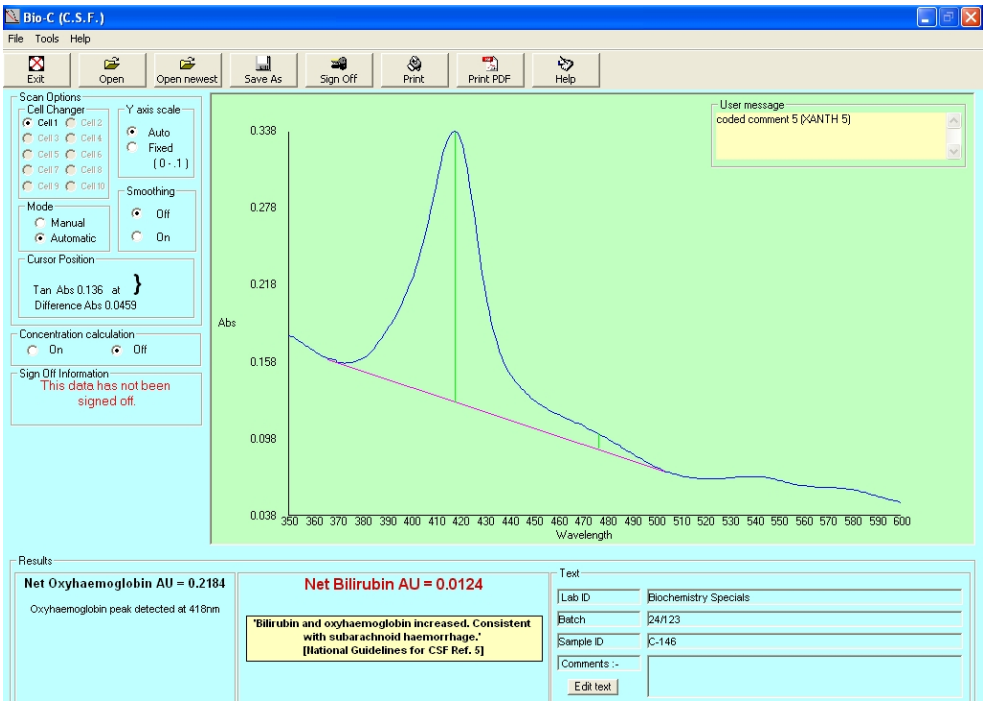
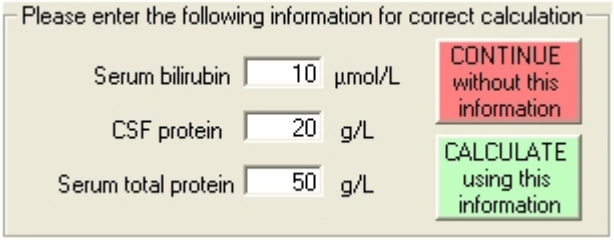
Bio-C System for Bilirubin in CSF, Total Urine Porphyrin & PBG



Complies with the revised national guidelines for the analysis of CSF for bilirubin in suspected subarachnoid haemorrhage.

- Automatic baseline calculation and appropriate national guideline message.
- Takes account of time of tap if known and reports accordingly
- Calculation of oxyhaemoglobin peak with position
- Nett Bilirubin absorbance with concentration calculation
- Manual or automatic setting of upper and lower wavelength
- Create report in pdf format for e-mailing
- Automatic absorbance scaling or manual setting to 0.1
- User specific coded comment displayed with National Guideline
- Barcode and patient specific information data entry
- Lock data with user name and passwords
- Correction for serum bilirubin, CSF protein and serum total protein



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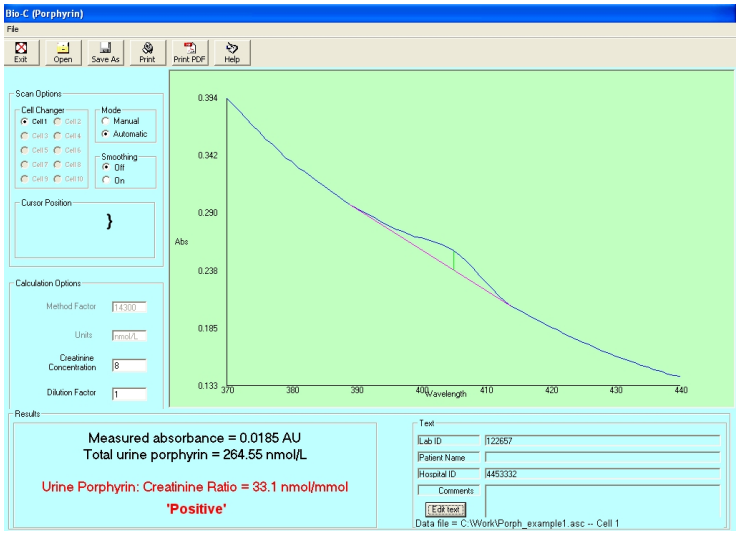
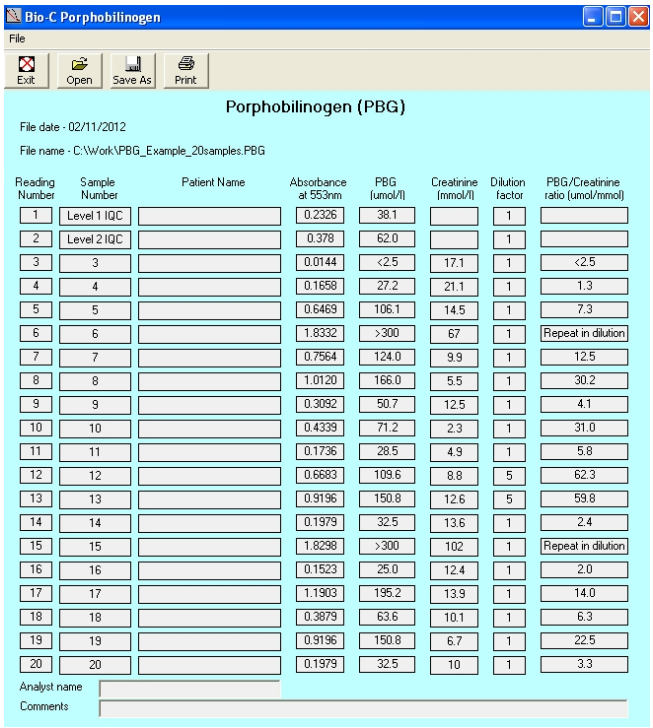


- Total Urine Porphyrin / Creatinine Ratio calculation if required
- User selectable method factor
- Method validation
- Create report in pdf format
- Easy data entry for Lab ID etc.



- Measure samples in batches
- Porphobilinogen (PBG) / Creatinine ratio
- PBG calculation
- Easy data entry for sample number and patient name

Other methods included in BIO-C are faecal porphyrin and ALA

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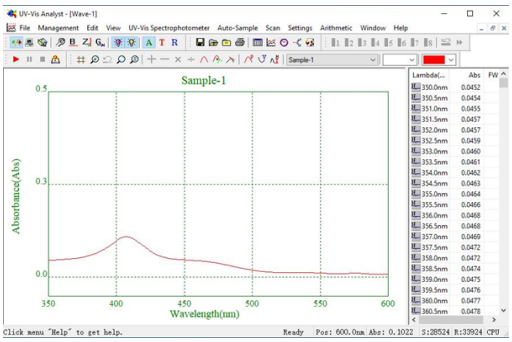
BIO-UV

UV-VIS TRUE DOUBLE BEAM SCANNING 1.8nm BANDPASS SPECTROPHOTOMETER

This is a true double beam instrument with parallel sample and reference beams. The specification is as expected from a top-of-the-range instrument designed for research as well as routine use.



The BIO-UV conforms to all current US and European Pharmacopoeia guidelines. It passes the Potassium Chloride stray light test, the Toluene in Hexane resolution test, the Holmium Perchlorate solution wavelength test and the Potassium Dichromate absorbance test.

www.bilirubin.co.uk
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PC Control

The BIO-UV is controlled from a Windows 10 based PC using UV Analyst and BIO-C software.

BIO-CAL validation package is available for performance checking.

User Interface

Operations Include:

- Basic Mode (Abs, %T, Conc)
- Quantitative
- Wavelength Scanning
- Kinetics
- DNA/Protein
- Multi-wavelength
- Performance Validation

Technical Specifications for the BIO-UV

Display	1/4 VGA 320x240 pixels back lit LCD
Light sources	Tungsten-Halogen and Deuterium
Monochromator	Littrow type with 1200 lines/mm grating
Scan Speed	Up to 2500 nm/min (return 3000nm/min)
Detectors	Silicon Photodiodes
Wavelength Range	190 - 1100nm
Wavelength Accuracy	± 0.3nm
Wavelength Resolution	0.1nm
Wavelength Repeatability	± 0.05nm
Baseline Flatness	± 0.002 (After 1 Hr warm up 1100 – 200nm)
Zero Drift	< 0.001A per hour after warm-up
Noise	± 0.0001A @ 500nm 0A
Bandpass	1.8nm
Stray Light	KCl>2A at 198nm <0.05%T @ 220nm & 340nm
Photometric Accuracy	± 0.5% at 0.5A, 1.0A and 2.0A
Photometric Range	-0.3 to 3A, 0 to 200%T, 0 to 9999 Conc
Printer Interface	Parallel for A4 HP and Epson printers
Computer Interface	USB Port
Power Requirements	110/120V, 220/230V, 50/60 Hz, 110VA
Dimensions	630 x 410 x 280mm packed 770 x 560 x 410
Weight	24kg packed 28Kg

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