

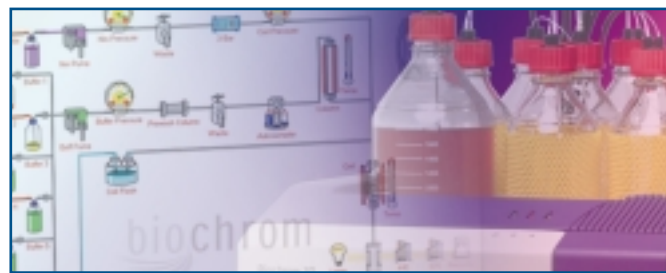


Biochrom 30 Series



Amino Acid Analysers Specification Sheet

Due to the flexible set up of the instrument and Biochrom's commitment to customer service, all customers can have their instrument tailored to their application. Therefore please signify on your order special applications required. This will enable us to deliver the instrument set up for your needs directly from the factory.



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Biochrom 30 Series

Specifications:

Detection Limit	Ninhydrin - 9 picomoles.
Reproducibility	Better than 0.5% CV at 10 nanomoles. Better than 0.1%CV for retention time
Temperature	Column temperature variable between 20°C and 99°C. Reaction Coil temperature set to between 40°C and 145°C (135°C is default).
Operating Pressures	Buffer pressure: maximum 145 bar (minimum 15 bar). Ninhydrin pressure: maximum 24 bar (minimum 6 bar). Coil pressure: maximum 12 bar (minimum 2 bar).
Buffers	Up to five buffers and one regeneration solution, all stored in graduated glass bottles under nitrogen pressure and fully programmable. Reservoir volume is 1 litre.
Ninhydrin Photometer	Stored under nitrogen pressure in a 2.0 litre glass reservoir. Single flowcell with optical beam splitter to provide detection at 440nm and 570nm using ninhydrin and tungsten halogen lamp. Outputs to Integrator System: 570nm, 440nm, ratio and sum of the two channels. Flowcell volume 8µl, pathlength 15mm.
Pumps	Two independently controllable pumps, each Ceramic pump head has double sapphire pistons and valves, with constant piston flush. automatically adjustable flow rate. Automatic Piston flush.
Analytical Column	High pressure PEEK column with Peltier heating/cooling system.
Resin	Cation-exchange resin, sodium or lithium form.
Autosampler	Refrigerated unit providing facility to load up to 84 sample vials using the standard carousel. Sample volumes from 1 to 5000µl can be loaded (optional loop needed for 5000µl). A 200µl loop is supplied as standard. Full loop, partial loop and microlitre pickup mode can be automatically set
Software/hardware	BioSys controls all the instrument functions and comes loaded onto a Compaq computer communicating through a Windows environment via the RS232 serial interface port on the electronic control unit in the instrument and on the autosampler.
Data Handling	EZChrom Elite 20 bit A to D conversion. 2 to 16 channels with 0.05 to 50Hz sampling. No Limit on number of data points. Data storage every 10 seconds.
Chart Recorder	Two channel, with chart width of 200mm for full scale deflection. Multiple chart speeds.
Dimensions	Fluidics Cabinet: 48x59x57cm (wxdxh) Autosampler: 30x50x34cm (wxdxh) Weight: 90 Kg
Required Services	Oxygen free nitrogen gas (99.99%), regulated to 5 bar. Drainage facility. 240V/100V, 50Hz/60Hz, 300VA mains supply.
Ambient Operating Temperature	15°C to 25°C
Maximum Humidity	80% at 25°C
Safety Systems	Automatic shut-down in the event of: Photometer lamp failure, low ninhydrin, buffer, coil and nitrogen pressures. High coil and column temperatures. High ninhydrin, buffer and coil pressures. Automatic instrument flush.

The Instrument package consists of the operating unit, which includes electronics unit, pumps, detection system, cooled autosampler.

Also included in the package are the items listed below.

- Compaq Deskpro or higher, P4 2.0Ghz
- 128Mb, CD, Win2000 (or higher)
- Compaq 17" colour monitor
Optional: (Compaq 15" Flat Panel Monitor Carbon/silver)
- Hewlett Packard Deskjet Printer
- Elite 1 Datahandling Software
- Analytical Column and top-up resin
- Ninhydrin and buffer bottles
- Prewash Column
- Instruction Manual
- Operating software and interface cables
- Tool Kit
- Chemical Kit
- Spare Parts and Consumables Kit
- Calibration Standard
- Signal Lead
- Power Cables
- IQ/PQ Logbook

Order information:

80-2111-00-SYS	Biochrom 30 Physiological
80-2111-01-SYS	Biochrom 31 Protein Hydrolysate
80-2111-02-SYS	Biochrom 32 Oxidised Hydrolysate

Distributor:

For sample specific run time specifications please contact Biochrom or your local distributor. More information including application notes can be obtained from www.biochrom.co.uk or by telephoning +44 (0)1223 427812



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Biochrom reserves the right to change specifications without prior notice.