

Technical Specifications

Biochrom 30Plus

Detection Limit	Ninhydrin - 9 picomoles
Reproducibility	Area: Better than 1.5% RSD at 5 nanomoles. Retention time: Better than 0.5%RSD
Pumps	Two dual piston pumps with integrated pressure transducer and drain valve. Ceramic pump head, sapphire pistons and valves. Electronically controlled piston wash.
Operating Pressures	Buffer pressure: maximum 150 bar. Ninhydrin pressure: maximum 24 bar.
Gradient System	6 buffer step gradient with free and flexible step times programmable.
Analytical Column	High pressure PEEK column packed with Ultropac 8 cation exchange resin. Peltier heating/cooling system.
Sample Injection	3 injection modes (full loop, partial loop and micro), 84 position autosampler with removable sample tray. Sample volumes from 1µL to 5000µL. 200µL loop supplied as standard.
Temperatures	Column temperature variable between 20°C and 99°C. Reaction Coil temperature adjustable between 40°C and 145°C (135°C is optimum).
Software	BioSys v3.0 control software Biochrom Alias Manager autosampler control software Latest version of EZChrom Elite Data Handling 21 CFR part 11 compliant
Detector	Single flow cell photometer with optical beam splitter and interference filters with detection at 440nm and 570nm as standard.
Computer	High-end Intel based computer newest generation specially designed for laboratory use.
Applications	Physiological Lithium Systems for clinical use of new born screening, in vitro diagnostic and all kind of investigating metabolic disorders. Short analysis times with 120 min. circle time. Short programs for PKU and MSUD available. Proteine hydrolysate and oxidized hydrolysate systems on Sodium base for food and feedstuff analysis and for pharmaceutical research and control. Short analysis times with 60 min. circle time. Short programs for single amino acids available.
Sample Preparation	Easy user friendly and time saving sample preparation because of low matrix interferences.
Analysis costs	Analysis costs lower than 5 € per analysis because of low price ready-to-use buffers and reagent.
Consumable and spare part supply	All consumables and spare parts are available from stock within a 24 hour delivery. No customer stock necessary.
Service and Support	Best and quickest on site service by 20 year experienced service engineers. A wide range of service and maintenance contracts available. IQ/OQ documentation by certified specialists. Free telephone and email support for all kind of questions. No delay times of engineer availability, vacation times etc.
Weight and dimensions	Bench top Fluidics Cabinet: 50kg/110lbs, 48 x 59 x 57cm /19 x 23 x 22 inches Autosampler: 21kg/46lbs, 30 x 57.5 x 36cm /12 x 23 x 14in
Safety Systems	Automatic shut-down and reaction coil flushing in the event of: Power failure, Photometer lamp failure, low ninhydrin, buffer, coil and nitrogen pressures, high coil and column temperatures, high reagent, buffer and coil pressures. Coil flush also programmable at the end of each sample sequence.