

BioLogic LP System

Low-Pressure Liquid Chromatography



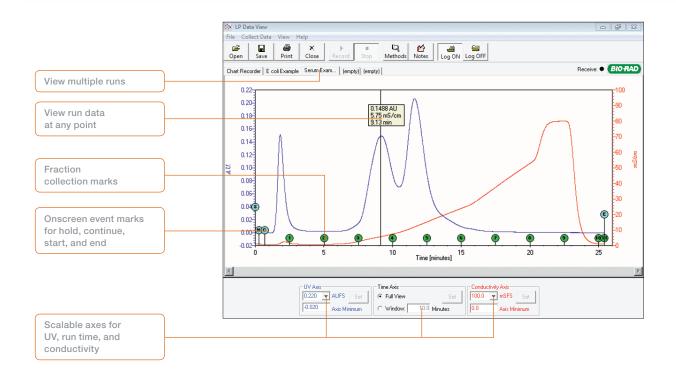
BioLogic LP Data View Software

Simple, easy-to-use software to record chromatograms

Advantages of the BioLogic LP Data View Software

- Automatically collects UV and conductivity data from the BioLogic LP System using any PC running Windows 10
- All three axes UV, conductivity, and run time can be rescaled independently both during and after data collection
- Automatically records method information for each run and allows notes to be recorded with the data
- Automatically records run events such as start, end, fraction advance, pause, hold, continue, and user event mark

- Includes a data logging feature, which can be used to record all data, rather than only chromatogram run data, and prevents loss of information in the event of a power failure
- Can save selected parts of either run data or logged data in independent data files
- Prints customized reports
- Exports data to other applications, such as Microsoft Excel



BioLogic LP System

Low-Pressure Liquid Chromatography



The BioLogic LP System is a valuable asset for biomolecule purification. Protein separations are achieved with the easy-to-use, flexible, space-saving, and modular features of the BioLogic LP Low-Pressure Chromatography System. This workstation offers numerous user-friendly features, making it a truly valuable tool for either the lab or the coldroom.

Common Applications

- Affinity purification
- Tagged protein purification
- Monoclonal antibody

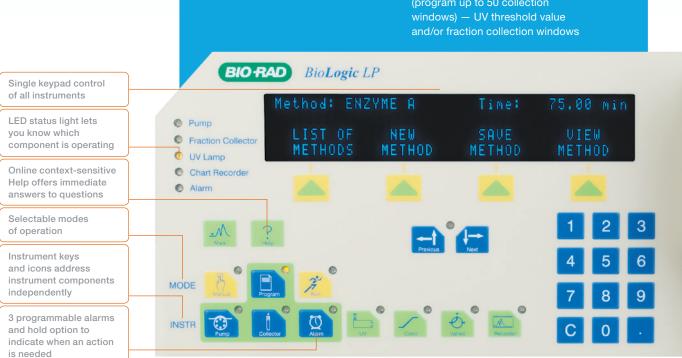
The BioLogic LP System meets the needs of both novice and expert users with:

- User-friendly programming and control interface, making overall operation exceptionally easy
- An all-in-one compact design to conserve valuable laboratory bench space
- A system that achieves reproducible separations with confidence
- Flexible compatibility with all low-pressure columns

Easy to Use

Intuitive control panel guides you through the process

- Store up to 50 methods
- Program or edit methods during
- Program up to 50 fraction collection windows
- Delay volume is completely programmable for easy identification of which tubes contain the peak of interest
- Customize fraction collections (program up to 50 collection windows) - UV threshold value



BioLogic LP System Tour

Flexible, space-saving, and modular system

Manual Inject Valve

flexible control of sample application, accommodating user-made loops of any volume

Gradient Mixer/Valve

allows high-accuracy gradient formation

Buffer Select Valve (Optional)

selective control of up to five buffers and automatic injection of large-volume samples

BioLogic LP Data View Software

record chromatograms, enable easy rescaling of chromatogram axes — multitask during chromatogram data capture and print to any printer



UV Monitor

single-wavelength, high-sensitivity detector (0.001 AUFS)

Gradient Monitor

conductivity monitoring

Fraction Collector Divert Valve and Column Bypass Valve (Both Optional)

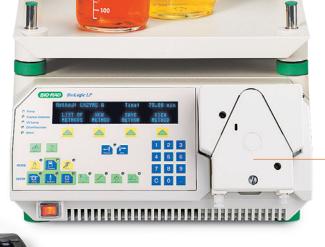
two-position solenoid valve for directing effluent flow from the column to a bypass position or from the fraction collector to a waste position

BioLogic Rack

adaptable solvent-resistant racking system; expansion options are available for custom racking applications

Peristaltic Pump

capable of generating flow rates ranging from 0.05 to 40 ml/min and a maximum backpressure of 30 psi (2 bar, 0.2 MPa)





BioFrac Fraction Collector

The BioFrac Fraction Collector offers flexibility with numerous collection rack options, including both custom and off-the-shelf collection racks. The custom racks provide a wide range of collection capability, from 1 drop (~50 μ l) to 99 liters. Off-the-shelf racks extend the versatility of collection schemes and provide cost-effective storage of samples. Off-the-shelf racks are autoclavable, can be easily assembled, and lie flat, requiring little storage space.

Key features include:

- Time, drop, or volume collection
- Collection of peaks by peak detection, time windows (up to 20), or a combination of both
- Drop arm movement in an x, y motion over each collection vessel; column, row, or serpentine pattern options available for microplates or tubes
- Dispenser arm that is manually adjustable to tube heights up to 150 mm
- Numerous off-the-shelf racks to accommodate tubes (12–20 mm diameter), microtubes (0.5, 1.5, or 2.0 ml), or scintillation vials
- Optional BioFrac Ice Bath/Microplate Rack with tube grips that hold tubes firmly in any position; ice bath rack allows cooling of 13 mm tubes or microplates and tubes that adhere to SBS standards
- Optional BioFrac Prep-20 Preparative Rack with up to 20 collection ports for collection from bottles to carboys
- Optional microplate drophead kit for precise collection of small volumes into microplates
- Manual-advance tube changes
- Coldroom compatible
- Small footprint of 44.5 x 35.6 x 38.7 cm



The easy-to-use Model 2110 Fraction Collector provides multiple collection modes for chromatographic separations.

Key features include:

- Time, drop, and volume collection
- Collection of 1 drop (~50 µl) to 9 ml fractions in 80 test tubes or microtubes (with optional adaptor)
- Manual-advance tube changes
- Coldroom compatible
- Small footprint of 24 x 33 x 25 cm



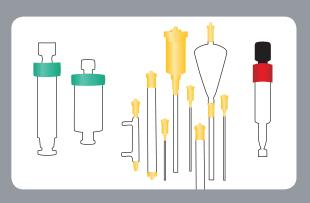
Compatible Columns

The BioLogic LP System is compatible with all low-pressure columns

- FconoFit Columns
- Econo-Column Columns
- HiTrap Columns

Low-Pressure System Fittings Kit (catalog #7318220)

For the Chromatography Column Connection Guide, request bulletin 5326.



Specifications

BioLogic LP Specifications

Pump

Flow rate range 0.1-40 ml/min Maximum counterpressure 30 psi (2 bar)

Gradient formation Solenoid-activated proportioning valve

Mixer volume ~750 µl

Detection performance

Single channel, 280/254 nm with auto zero

Detection range: 0.001-2 AUFS Detection range: 0.5-500 mS/cm FS

Temperature range 4-40°C

Sample loading Manual loop fill Automatic loading through SV-5

Buffer Select Valve

Fraction Collector Specifications

BioFrac Fraction Collector

Collection modes

Conductivity

0.02-99.999 min Time

1-99,999 drops, flow rate ≤5.0 ml/min Drop

Volume 0.02-99.999 ml

Collection rack options 180 x 12-13 mm tubes, 120 x 15-16 mm

tubes, 80 x 18-20 mm tubes, 168 x 1.5 ml microtubes, 24 x 30 mm tubes, 4 x 96, 48, 24, or 12 position microplates, and 20 x unlimited preparative volumes adaptor

4-40°C Operating temperature

Dimensions (W x D x H) 44.5 x 35.6 x 38.7 cm

Meets IEC 61010 and CSA 22.2 certification Safety

Model 2110 Fraction Collector

Eighty 13 x 100 mm glass, polypropylene, Capacity

or polystyrene test tubes, or 1.5 ml micro test tubes when using optional adaptor

Collection basis 1-999 drops in 1 drop increments;

0.05-9.99 minutes in 0.01 minute increments: 10.0-99.9 minutes in

0.1 minute increments

Construction Case and carousel: polypropylene

Front panel: hard-coated polycarbonate

Drop former: silicone rubber Waste outlet tube: polyurethane

Operating temperature 4-40°C

24 x 33 x 25 cm Dimensions (W x D x H)

Safety Meets IEC 1010 and CSA 22.2 certification

Related Product Literature

Description Bulletin # Bio-Scale Mini Cartridges 5584 Chromatography Column Connection Guide 5326 **Empty Column Selection Guide** 2289 Prepacked Cartridge Selection Guide See website

Ordering Information

BioLogic LP System

Catalog#

Standard BioLogic LP System, 100/120 V, includes 7318300

BioLogic LP Controller, BioLogic Rack, and accessory kit containing inject valve (MV-6), proportioning valve/ mixer, UV optics, conductivity cell, tubing and fittings kit, conductivity cell/column holder, user manual,

and starter kit

7318301 Standard BioLogic LP System, same as 7318300

except 220/240 V

BioLogic LP System + BioFrac Fraction Collector

7318304 BioLogic LP System with BioFrac Fraction

Collector, 110/120 V, includes standard BioLogic LP

System, system cables 3 and 15

7318305 BioLogic LP System with BioFrac Fraction

Collector, 220/240 V

7318338 BioLogic LP System with BioFrac Fraction

Collector and LP Data View Software, 110/120 V,

includes system cables 3 and 15

7318339 BioLogic LP System with BioFrac Fraction

Collector and LP Data View Software, 220/240 V

BioLogic LP System + Model 2110 Fraction Collector

7318302 BioLogic LP System with Model 2110 Fraction

Collector, 110/120 V, includes BioLogic LP System,

SV-3 diverter/bypass valve, system cable 1, plus Model 2110 Fraction Collector

7318303 BioLogic LP System with Model 2110 Fraction

Collector, 220/240 V

7318336 BioLogic LP System with Model 2110 Fraction

Collector and LP Data View Software, 110/120 V, includes SV-3 diverter/bypass valve, system cable 1

7318337 BioLogic LP System with Model 2110 Fraction

Collector and LP Data View Software, 220/240 V

Fraction Collectors

7318122 Model 2110 Fraction Collector, 100/120 V,

carousel-type fraction collector, 80 tube capacity,

for use in chromatographic separations

7318120 Model 2110 Fraction Collector, 220/240 V.

carousel-type fraction collector, 80 tube capacity,

for use in chromatographic separations

7410002 BioFrac Fraction Collector, 100/240 V, fraction

collector, includes power cord, rack set F1 (2 x flatpack,

13 mm), BioFrac Diverter Valve, fittings kit

Valves

7318321 SV-5 Buffer Select Valve, 5-port, 4-position solenoid random-access valve, 30 psi (2 bar) limit

MV-6 Manual Inject Valve, 6 ports

7318322 SV-3 Diverter/Bypass Valve, 3-way valve

Software

7318320

7318365 LP Data View Software for BioLogic LP System,

includes 25' serial cable, port adaptor, and installation/

operation guide

BIO-RAD and ECONO-COLUMN are trademarks of Bio-Rad Laboratories, Inc. All trademarks used herein are the property of their respective owner.



Bio-Rad Laboratories, Inc.

Life Science Group Web site bio-rad.com USA 1 800 424 6723 Australia 61 2 9914 2800 Austria 43 01 877 89019 Belgium 32 03 710 53 00 Brazil 55 11 3065 7550 Canada 1 905 364 3435 China 86 21 6169 8500 Czech Republic 36 01 459 6192 Denmark 45 04 452 10 00 Finland 35 08 980 422 00 France 33 01 479 593 00 Germany 49 089 3188 4393 Hong Kong 852 2789 3300 Hungary 36 01 459 6190 India 91 124 4029300 Israel 972 03 963 6050 Italy 39 02 49486600 Japan 81 3 6361 7000 Korea 82 2 3473 4460 Mexico 52 555 488 7670 The Netherlands 31 0 318 540 666 New Zealand 64 9 415 2280 Norway 47 0 233 841 30 Poland 36 01 459 6191 Portugal 351 21 4727717 Russia 7 495 721 14 04 Singapore 65 6415 3188 South Africa 36 01 459 6193 Spain 34 091 49 06 580 Sweden 46 08 555 127 00 Switzerland 41 0617 17 9555 Taiwan 886 2 2578 7189 Thailand 66 2 651 8311 United Arab Emirates 971 4 8187300 United Kingdom 44 01923 47 1301

Bulletin 2038 Ver C US/EG 19-0595 0819 Sig 0119

