

Logi-CHROM FDG™

Integrated Radio-HPLC for ^{18}F-FDG

www.**lablogic**.com

LabLogic
EXPERIENCE & EXPERTISE

An integrated radio-HPLC system designed specifically for ^{18}F-FDG

The Logi-CHROM FDG is engineered exclusively for the radiochemical purity testing of ^{18}F-FDG. Informed by LabLogic's extensive experience in delivering radio-HPLC instruments, this streamlined solution integrates all essential components into one single solution.

The system houses a bio-inert isocratic pump, semi-automatic injector, column storage and helium sparging in one unit, and uses the Flow-RAM 2 radiodetector which sits adjacent. An electro-chemical detector maintains a simplified footprint, while Laura Radiopharma software provides regulatory compliance and intuitive user control.

Minimal maintenance

Because of a reduced number of components, the Logi-CHROM FDG lowers ongoing maintenance costs while still delivering the full functionality of a traditional radio-HPLC system.

Plug-and-Play

The Logi-CHROM FDG can simply be placed on a bench, plugged into the optionally supplied workstation and put to use.

Simple setup

The streamlined Logi-CHROM FDG is remarkably easy to deploy. Its compact footprint makes it an appealing replacement for aging stackable HPLC systems, as well as an ideal choice for new facilities seeking a simple, reliable and dedicated solution.

Complete control

As with all LabLogic instruments, the Logi-CHROM FDG is controlled by Laura Radiopharma, the industry's leading radiochromatography software for data collection and analysis, which integrates seamlessly with PETra and SPECTra LIMS.



System components

Bio-Inert Isocratic Pump

The Logi-CHROM FDG is supplied with a bio-inert isocratic (ceramic) pump as standard. No need to passivate.

Specifications	
Optimal Flow Rate Range	0.1 - 8.0 ml/min.
Flow Rate Increment	0.001 ml/min
Maximum Delivery Pressure	Bio-inert (ceramic): 5800 psi / 40 MPa / 400 bar for 10 ml head

EC Detector

LabLogic's electrochemical detector is Faraday shielded and temperature controlled, allowing the column and flow cell to maintain an accurate and stable temperature. Its Advanced Digital Filter (ADF) improves signal-to-noise ratio, improving the detection limit by up to a factor of 200, depending on conditions.

Sample Injector

A semi-automatic injector controlled by Laura Radiopharma ensures the sample is fully loaded and reduces finger dose.

Radiodetector

The Logi-CHROM FDG uses the Flow-RAM 2 radiodetector with a 1" NaI detector and 2" lead shield. It is temperature controlled for fixed stable operating temperatures to deliver consistent performance.

Intergrated Helium Sparging

Helium sparging protects LC mobile phases from atmospheric carbon dioxide and oxygen by maintaining an inert helium atmosphere within solvent bottles. Particularly suited to high-performance anion-exchange chromatography (HPAEC) for carbohydrate analysis, it helps prevent carbonate formation in strongly alkaline eluents, supporting consistent retention times, column selectivity and resolution. Initial helium sparging followed by continuous blanketing minimises helium consumption, while its design and components make it easy to integrate into existing LC working practices.

Thermostatic Column Compartment

An optional thermostatic column compartment module can be added to the system.

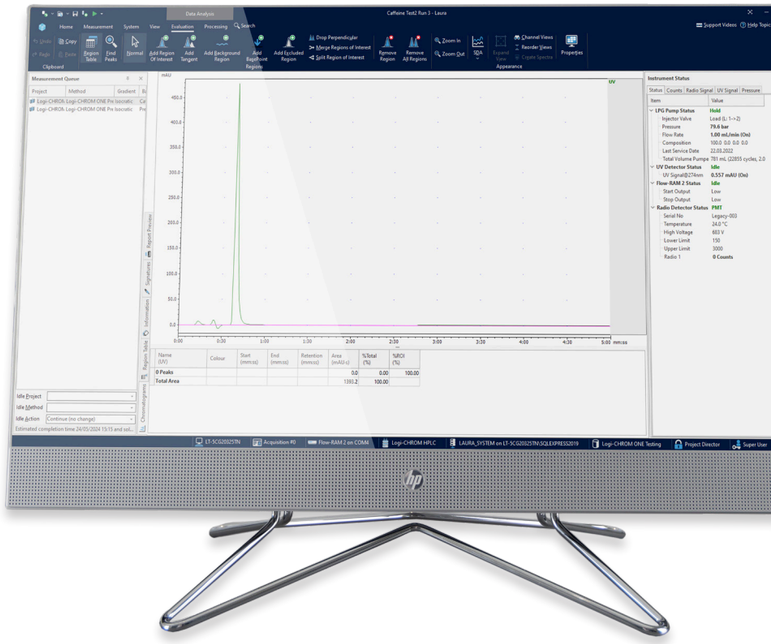
Logi-CHROM FDG	
Dimensions	44 (D) x 50 (W) x 45.3 (H) cm
Weight	Logi-CHROM FDG Unit: 38 kg

Flow-RAM 2 Radiodetector	
Dimensions	16 (H) x 15 (W) x 7 (H) cm
Weight	Radiodetector Lead: 46 kg

Power Requirements	
Power Supply Input	100-240 Vac, 50-60 Hz, 1.4 A
Power Supply Output	24 Vdc 5.0 A. 120 W max.
Radiodetector Power	5 V, 500 mA, 2.5 W max. (via USB)

Connectivity Requirements	
HPLC Isocratic Pump	Ethernet via built-in router
HPLC EC Detector	USB
HPLC Radiodetector	USB

For further information please refer to the Technical Specification Sheet



Service and Support

Users of our systems can benefit from our comprehensive, fully inclusive service and support.

We can give reassurance that if things go wrong or you need expert advice, help is only an e-mail or phone call away.

Validation Services

Our Validation Service enables you to implement and get maximum value from your investments as soon as possible.

We work as a partner with your Quality Manager, System Manager and users to provide a tailored Validation Plan, suited to your needs. Our Validation Specialists who have many years' of experience in GLP system validation, detailed knowledge of our systems, together with other industry standard systems to help you meet company and regulatory requirements.

Training

LabLogic can provide a variety of training courses and workshops to help you get the most out of your instrument and software.

All training is performed by our expert Product and Support Specialists who have many years experience in the development and use of the instruments and software.

Certificates can be provided to complement your internal GLP training records.

THE KING'S AWARDS FOR ENTERPRISE 2023 INTERNATIONAL TRADE

MADE IN SHEFFIELD

Visit our website

Europe & Worldwide

LabLogic Systems Limited
Innovation House, 6 Europa View
Sheffield, S9 1XH, UK

E-mail: solutions@lablogic.com
Tel: +44 (0)114 266 7267

www.lablogic.com

USA & Canada

LabLogic Systems, Inc.
3901 Centerview Drive, Suite B
Chantilly, VA 20151, USA

E-mail: solutions@lablogic.com
Tel: +1-703-429-4209

www.lablogic.com

LabLogic
EXPERIENCE & EXPERTISE

Certificate No: 1535
ISO 9001

INVESTORS IN PEOPLE
We invest in people Gold

Certificate No: 10926
ISO 9001

CARBON BALANCED PRINT
www.carbonbalancedprint.com
CBP2225

Version 1.0 September 2026