



Logi-CHROM FDG™

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

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 **LabLogic**
EXPERIENCE & EXPERTISE

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

The Logi-CHROM FDG is engineered exclusively for the radiochemical purity testing of ¹⁸F-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 an 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.

Simple setup

Ongoing maintenance costs are reduced – due to fewer parts being used – whilst retaining the same level of functionality as a traditional equivalent system.

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.

Integrated into the LabLogic range

Logi-CHROM FDG is part of LabLogic's expanding range of market leading Radiopharmacy Quality Control solutions. It is fully compatible with SPECTra/ PETra LIMS and is controlled by Laura Radiopharma radiochromatography software.



'Plug and Play'

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

System components

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 ensures the sample is fully loaded.

Radiodetector

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

Intergrated Helium Sparging

The integrated helium sparging system blankets all LC mobile phases with an inert helium gas atmosphere in an easy and effective way.

Thermostatic Column Compartment

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

Industry Standard Software

Logi-CHROM FDG is fully controlled by the single point of control, radiochromatography software Laura Radiopharma and can be seamlessly integrated with the world leading PET LIMS, PETra.



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

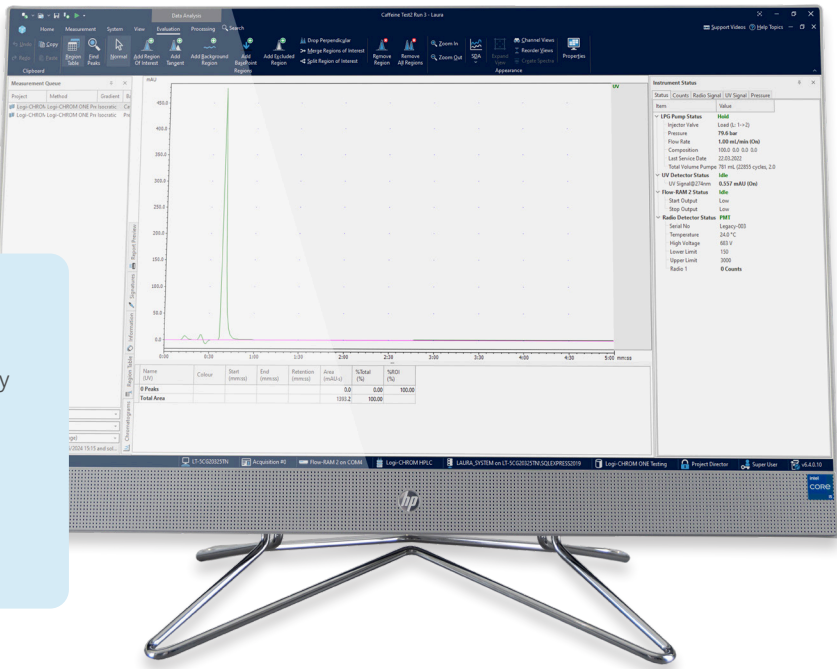
Power Supply Input	100-240 Vac, 50-60 Hz, 1.4 A
Power Supply Output	24 Vdc 5.0 A. 120 W max.
Radiodetector Power	5 V, 500 mA, 2.5 W max. (via USB)

Connectivity Requirements

HPLC Isocratic Pump	Ethernet via supplied router
HPLC EC Detector	USB
HPLC Radiodetector	USB

For further information please refer to the Technical Specification Sheets for the following products:

- Logi-CHROM Isocratic (LPG) Bio-Inert Pump
- Logi-CHROM EC Detector
- Logi-CHROM Manual Injector Valve
- Flow-RAM 2
- Thermostatic Column Compartment



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.



Visit our website



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Certificate No: 1535
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Certificate No: 10526
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Version 1.0 September 2026