



Spec-RAM LC™

High resolution gamma spectrometry for HPLC

www.lablogic.com



LabLogic

EXPERIENCE & EXPERTISE

A high resolution gamma spectrometer for radiopharmaceutical QC

The Spec-RAM LC™ uses high resolution gamma spectrometry to analyse the isotopic composition of HPLC eluants. It allows precise window setting and isolation of the signal from the parent isotope, when chromatographic peaks contain daughters. This allows online, instant measurement of radiochemical purity with no waiting for decay of daughters, no fraction collecting and no manual data handling.

It can also be used as a simple online gamma detector for a wide range of isotopes, or as a benchtop gamma spectrometer for radionuclide identity or purity measurements.

Full control and data analysis is provided by Laura Radiopharma™ software, which ensures full regulatory compliance and data integrity.

Efficient and compliant

- Integrated 2048 channel MCA.
- Online high-resolution gamma spectrometry (2.5% FWHM at 662 keV).
- Low background <0.2 cps.
- Isolate the signal from parent isotope.
- All system components (including HPLC modules) can be controlled by Laura Radiopharma™ software.
- Full GMP compliance and fully automated data analysis and reporting in Laura Radiopharma™ software.
- Small footprint detector (24 cm diameter).
- Rapid and simple energy and efficiency calibration.
- Range of fixed volume flow cells from 50 µL - 200 µL. Additional flow cell volumes available on request.

Specifications	
Weight	52 kg
Dimensions	280 mm (H) x Ø 240 mm
Energy Resolution	<2.5% FWHM at 662 keV
Minimum frequency for time resolved gamma spectrometry	1 second
Standard Flow Cell Volumes	10 µL, 20 µL, 50 µL, 100 µL, 200 µL

Flexible and precise

- Allows analysis of isotopic composition of HPLC peaks.
- Ideal for isotopes such as Pb-212, where chromatographic peaks can contain parent and daughter isotopes.
- Allows isolation of signal from parent isotope, with no counts from daughters.
- Radiochemical purity measurement is possible immediately, with no fraction collecting and no waiting for decay of short-lived daughters.
- More precise measurement of radiochemical purity.
- High sensitivity – low background gives excellent signal/noise ratio, with detection of low-level peaks at sub kBq levels.
- Single point of control and data analysis if Laura Radiopharma™ software is used to control your HPLC modules.
- Much less risk of error and improved GMP compliance.
- Intuitive calibration procedure allows rapid system suitability testing and ensures accuracy of results.
- Easily optimised for chromatographic resolution and sensitivity with a range of fixed-volume flow cells.
- Can also be used as an online gamma detector for other isotopes (Tc-99m, F-18, Ga-68, Lu-177 and more).

GMP Compliant System

GMP compliant software for gamma spectrometry

Like all LabLogic instrumentation, the Spec-RAM LC™ is controlled by Laura Radiopharma™, our industry-standard software for instrument control that is compliant with global regulations such as FDA 21 CFR Part 11 and EU Annex 11. The introduction of compliant software to gamma spectrometry facilitates easier validation for sites while improving workflow efficiency.

- Features include:
- Full audit trail.
 - User defined access levels.
 - Electronic signatures.
 - Secure database.
 - Multi-level security.

Maintaining data integrity

Laura Radiopharma™ is seamlessly integrated into LabLogic's LIMS such as PETra™ and SPECTra™, allowing captured data to be instantly populated. This integration between the software packages preserves data integrity in accordance with ALCOA principles.



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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