Beta-RAM™

radio-HPLC Flow Detector

www.**lablogic**.com

LabLogic
EXPERIENCE & EXPERTISE

The world's leading radio-flow detector offers unrivalled sensitivity, resolution and versatility

The Model 6 has impressive features which improve the Beta-RAM's performance and the efficiency of the radiochromatographer.

Performance

Accurate built-in liquid mixing

The Beta-RAM™ has an built-in scintillation cocktail pump accurately controlled by Laura software plus low dead volume mixing tee to provide the very best conditions for sensitive counting of even low energy beta emitters such as ^{3}H.

Active Counting Mode

Active Counting Mode allows the system to monitor and adjust run conditions in real-time, dynamically applying the most appropriate settings. This gives on-line detection limits previously only achieved off-line, as well as improved resolution and peak definition.

Radwaste

The Radwaste valve diverts the outflow to a separate waste line when counts of radioactivity are detected. Simply select the count threshold in Laura, and when this is met, the waste flow will switch from cold to hot. This can be collected in a separate container reducing the amount of contaminated waste produced.

Mass-spec compatibility

A non-return valve is available for users that wish to use the system in tandem with a mass spectrometer.

Stop Flow

The stop flow mode allows the user to achieve superb levels of sensitivity previously unavailable with on-line counting methods. By controlling both the Beta-RAM and HPLC system, the user can define a fraction time and counting time therefore eliminating the labour intensive, time consuming process of fraction collecting.

Cell ID

All parameters relative to flow cell type and serial number are seamlessly identified in the Laura software. Cell ID allows for automatic calculation of eluate residence time and other counting units such as cpm and dpm.

Support for UHPLC, Rapid Resolution LC, Fast LC

The latest liquid chromatography technologies require dead volumes, connections and flow control of the scintillation cocktail to be finely managed. The parameters on the Model 6 are optimised to give superb performance with even the most rigorous LC demands.

Reliability

With over 30 years of development and used by thousands of researchers worldwide the Beta-RAM™, coupled with the industry standard Laura software, continues to lead the way for radiochromatographers.

Stackable radio-HPLC detector

The Beta-RAM can be easily stacked with HPLC systems; specifically, it has been designed to integrate with the LabLogic Logi-CHROM HPLC stack.

IRIS or Standard Cell options

Depending on the user's preference the Model 6 can be supplied with an IRIS or Standard Cell.

IRIS Model

The IRIS model offers the user a wide range of cell volumes, all available without having to change the flow cell.

IRIS Technology

IRIS technology allows users to optimise sensitivity and resolution by creating a range of cell volumes available dynamically. The IRIS aperture opens and closes to reveal or obscure the flow cell tubing. Closing the IRIS replicates a smaller cell volume delivering sharper peaks and improved resolution. Opening the IRIS will replicate a larger cell with a longer residence time for improved sensitivity.

Integrated Liquid Manifold

The compact and integrated liquid manifold handles the liquid distribution and mixing with scintillation cocktail. The manifold is designed to reduce dead volume to the minimum, ensuring excellent peak shape and resolution.

Standard Cell Model

For users that require a traditional flow cell configuration, the Standard Cell (SC) provides the option of using either liquid mixing or solid scintillator cells.

Replaceable Flow Cells

Flow cells can be changed easily and are available in a range of volumes and types, including fixed volume solid scintillator and liquid mixing cells.

Horizontal or Vertical Operation

The standard cell model can be operated horizontally, as a stand-alone unit, or as part of an HPLC stack. It can also be placed in a space-saving vertical position alongside the HPLC.

Industry standard software

The Beta-RAM™ is controlled by LabLogic's Laura™ software, which has been recognised as the industry standard radiochromatography software package for over 30 years. It provides single point control and data analysis for over 350 r-HPLC detectors produced by leading maufacturers.

Laura™ is the ideal software package whether the work involves metabolite profiling, quality control, compound purification or any other chromatography task. Laura™ offers a Single Point of Control of both the radio-detector and HPLC system, as well as LSC/Gamma counters, in a GxP environment.

It offers users the facility to create and edit methods, set up sample runs and view data collection across the network, in real time and without being confined to the bench-top PC.

Laura™ provides connectivity to a wide range of instruments. As well as LabLogic's Beta-RAM™ for radioactivity detection, Laura™ connects to and controls HPLCs and LSCs.

Regulatory Compliance

Laura™ is designed to fully support GLP and associated regulatory compliance. This includes support for FDA 21 CFR part 11. Totally configurable to meet all requirements, Laura™ features audit trail, flexible security settings, multi-level access and e-signatures.

Electronic Signatures

Laura™ supports the use of electronic signatures and the system can be configured to suit the user sites requirements for electronic data.

Audit Trail

Laura™ has a fully featured audit trail that can again be configured to suit the requirements of the user site. Response from the user can be a simple as choosing from a pre-defined list of standard audit reasons or require a unique response depending on the situation and site rules.

Access Levels

Laura™ features multi-level access control and the system can be configured to have as many levels of access as the user site requires. Menu items are then restricted according to the security level of the individual logged in.

Security Settings

Laura™ can be configured to suit your particular site requirements for security. User names and passwords can be controlled relative to the site requirements as can inactivity time outs and all other functions required for a secure system.

Data Integrity

Regulatory compliance is an essential feature of Laura™, built to meet GLP/GMP, MHRA and FDA 21 CFR part 212 / 11 requirements. Featuring configurable audit trail, electronic signatures, secure data storage in a database environment and multi-level security Laura™ can be configured to meet regulatory requirements for data integrity.

Seamless direct links with the industry standard Debra LIMS system.

Basic Specifications	
Size	19" (L) x 14" (W) x 6" (H)
Weight	44 lbs

Please refer to the Technical Specification Sheet for further information

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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INVESTORS IN PEOPLE
We invest in people Gold

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