

## Application Information

### FlowStar LB513 Radioactivity flow detectors for HPLC

A variety of applications have been performed with our

#### FlowStar LB513



LB513 FlowStar

From Agricultural Industry to Pharmaceuticals Berthold Radioflow detectors have been around for more than 20+ years - some of these models are still in operation today.

Our newest model, the LB513 FlowStar, has been used for

#### RECENT APPLICATIONS

- \*Faster analysis of radio pharmaceuticals using UPLC™
- \*Agricultural industry for metabolite studies in soil either using C-14 or tritium
- \*Quality control of radiopharmaceuticals for Nuclear Medicine
  - \*PET centers
  - \*Radiolabelling in vitro and in vivo.
- \*Online radioactivity detection for metabolite profiling - Johnson & Johnson

Our latest addition to the publicized applications for the FlowStar LB513 appears in  
Pharmaceutical Research

#### Novel In Vitro-In Vivo Extrapolation (IVIVE) Method to Predict Hepatic Organ Clearance in Rat

Also a new publication from the ETH Zurich with 18F

#### Novel synthesis and radiolabelling for the PET imaging

Berthold Technologies meets your needs....

## Radio HPLC Detectors

Berthold Technologies first produced a Radio HPLC detector nearly 50 years ago. Improvements have been made over the years in performance of the instrument resulting in the latest "state of the art" detector.

Monitoring of radio-labelled compounds separated by chromatographic techniques has been established as one of the most powerful tools in drug, pesticide, metabolism and pharmacokinetic studies as it provides very high sensitivity and specificity.



**LB513 FlowStar**

- \* High Sensitivity
- \* Automatic Cell Detection
- \* Isotope Library
- \* User Access Control via PC or TouchScreen
- \* Multiple Interfaces
- \* System safety features



**LB500 HERM**

Dedicated radio flow monitor for detecting gamma isotopes in high activities.

- \* Choice of Operation
- \* Twin Cell Changer
- \* Downstream Control & Validation



**fLumo Luminescence & PET Detector**

Flow Monitoring Chemiluminescence and Gamma Isotopes in High Background Labs  
The fLumo Chemiluminescence Detector for HPLC and liquid chromatography systems uses a highly sensitive head-on photon counting detector with low background. Different cell sizes can be used to adapt for flow rates and signal intensities. The compatibility of the evaluation electronics to external analysis systems is guaranteed.

**Download Applications**

**Various applications are available for each of our instruments.**

**How do I download application notes?**

**[www.berthold.com](http://www.berthold.com)**

**Please authenticate yourselves for downloads.**

**Registered Users:**

As an already registered user please log in with your username and password

**Non-Registered Users:**

**Option 1:** register yourselves and log in thereafter

**Option 2:** request a temporary download link

When choosing this option we ask you to provide a valid email address to which the documents will be sent. The download session will be kept open for 60 minutes within which you can request additional documents without further identification.

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