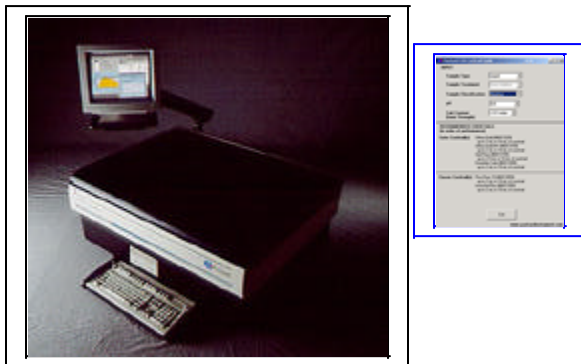


## Tri-Carb Liquid Scintillation Analyzers

### Introducing the New Tri-Carb LSCs with QuantaSmart™ Software for the Windows NT® Operating System!



#### Click on icon to download your free copy of "LSA Cocktail Guide"

We are pleased to announce the availability of three new Tri-Carb LSCs with QuantaSmart – the new interface software designed for the Windows NT® operating system. This new interface software on the new models (2900TR, 3100TR and 3170TR/SL) provides the user with a true 32 bit operating environment, with a familiar, easy to use Windows-style "folder" interface for uncomplicated data management, multitasking, security and networking. QuantaSmart is simple to use, minimizes counting errors and provides automatic, reliable, easy-to-read reports.

QuantaSmart, combined with the patented TR-LSC®<sup>1</sup> (Time-Resolved Liquid Scintillation Counting), and its proprietary<sup>2</sup> biodegradable, quench resistant cocktails make LSCs the optimum choice for any counting applications.

TR-LSC allows you to count samples with ten times lower background and to cut cocktail volumes in half -- without losing counting efficiency. In fact, *Surround TR-LSC*, makes LSC so sensitive that it can be used to measure ultra low levels of natural radiation. It can also be used to detect very low concentrations of metabolites with sensitivity that rivals AMS (Accelerator Mass Spectrometry).

Besides lower detection limits, this enhanced liquid scintillation counting sensitivity means reduced usage of radioactivity, less cocktail consumption and minimized mixed waste. And, unlike any other LSC, Tri-Carb's performance is calibrated and monitored with NIST traceable standards. This ensures total data compliance with Good Laboratory Procedures (GLP) and Good Automated Laboratory Procedures (GALP).

For absolute activity measurements in DPM (disintegrations per minute), Tri-Carb LSC's offer unique Direct DPM<sup>3</sup> and AEC (Automatic Efficiency Control)<sup>4</sup> methods. These techniques automatically compensate for counting efficiency losses occurring as a result of chemical and color quenching. This provides superior single and dual label DPM results over wide quench ranges.



Provides affordable automation to satisfy basic requirements, yet offers versatility to expand and meet changing application needs.

- Automatic Varisette sample changer for up to 408 large vials or 720 small vials, or a combination of large and small vials.
- Unmatched TR-LSC sensitivity in a low cost, general purpose LSC.
- Self-normalization and calibration with NIST traceable standards for verified counting stability.
- Built-in state-of-the-art computer control for fast programming and on-screen editing, screen updates, and data transfer. Available hard disk, additional floppy drives, networking and tandem processing (for up to 60 users).
- Direct DPM provides single label DPM results for most radionuclides from heavily quenched H-3 to P-32 even in the same sample cassette. Dual label DPM with AEC is optional.

## **The Tri-Carb 2900TR with QuantaSmart Operating Software**

Equipped with QuantaSmart operating software for the Windows NT operating system, the Tri-Carb 2900TR is the price performance leader with unmatched value for multipurpose scintillation counting.

In addition to the new QuantaSmart software, the Tri-Carb 2900TR provides all the the following features:

- A powerful new integrated computer control system with 64 MB RAM, 10 GB hard disk minimum, color 17" SVGA monitor, built in CD-ROM and floppy drive
- SpectraBased automatic counting of quench standards and samples
- Automatic recalculation of quench curves based on specific assay conditions
- Password protection of assays
- On-demand availability of model number, serial number, software version number, calibration information, date and page number via electronic or printed report
- Direct DPM
- Color corrected single and dual label DPM
- Chemiluminescence detection
- Optional ULLCM (Ultra Low Level Count Mode), alpha/beta count options, Replay of historical data and IPA (Instrument Performance Assessment)

## **Tri-Carb 3100TR with QuantaSmart Operating Software**

The Tri-Carb 3100TR with QuantaSmart for the Windows NT operating system is an extremely powerful LSC, allowing you to set-up, count and process samples faster, more accurately and more completely than any other LSC.

The Tri-Carb 3100TR builds upon the powerful framework of the Tri-Carb 2900TR and adds:

- IPA (Instrument Performance Assessment) routines to aid GLP/GALP compliance with trend analysis charts and tables
- Replay function for all historical samples
- HSCM (High Sensitivity Count Mode)
- Work Listing Positive Sample ID to automatically link sample ID with count data
- Sample PrioStat manual special function interrupt mode
- Chemiluminescence detection and correction
- Triple label DPM

### **Tri-Carb 3170TR/SL with QuantaSmart Operating Software**

The Tri-Carb 3170TR/SL combines the advantages of the features of the Tri-Carb 3100TR with the super low sensitivity provided by the patented *Surround TR-LSC* technology to provide outstanding performance for environmental alpha/beta applications, C14 age dating, and metabolism and toxicology studies.

**Unique to the Tri-Carb 3170TR/SL are the:**

- SLLCM (Super Low Level Count Mode) with BGO (Bismuth Germanium Oxide) detector guard providing super-sensitivity for counting extremely low level environmental samples
- Temperature controlled refrigeration to maintain optimal counting conditions for a wide variety of sample types