

Liquid Scintillation Analyzers

Tri-Carb 3110TR Low Activity Liquid Scintillation Analyzer



Tri-Carb 3110TR

Description

The Tri-Carb® 3110TR is a computer-controlled benchtop liquid scintillation analyzer for detecting small amounts of alpha, beta and gamma radioactivity.

Standard instrument features

- **Powerful computer system control** on a dedicated ergonomic support arm with 2 GB (minimum) RAM and 80 GB hard disk (minimum), built-in DVD RW and EtherNet support.
- **Robust downloading sample changer mechanism** with an electrostatic controller and a double light sealing shutter that allows the photomultiplier tube detectors to remain on for maximum stability even during sample changing.
- **Patented TR-LSC® (Time-Resolved Liquid Scintillation Counting)** is featured for high sensitivity, low background counting of LS samples. TR-LSC increases sample throughput and reduces cocktail consumption.
- **Multi-parameter linear MCA (Multichannel Analyzer)** with an effective resolution of 1/10 keV, offers an extended dynamic quench range and provides multi-parameter spectrum analysis to correct for luminescence, color quenching and background radiation.
- **Live SpectraView™** Automatic spectrum display aids in optimizing counting conditions and helps evaluate complex sample situations. It allows setting temporary regions on the spectrum screen and enables the operator to monitor the effect of AEC (Automatic Efficiency Control) while the sample is counting.
- **^{137}Ba low energy external standard source and tSIE (transformed Spectral Index of External standard) calculations** eliminate the effects of vial glow, plastic wall and cocktail changes on the DPM results. The use of integral spectrum counts eliminates the need for repeat counting of the external standard and negates the effect of isotope half-life on quench monitoring accuracy and precision. The ^{137}Ba external standard is centered under the sample vial which eliminates the effects of volume variations and assures reproducible quench monitoring for the life of the instrument.
- **A cassette-loaded bi-directional sample conveyor mechanism** is standard with a sample capacity of either 408 standard 20 mL vials, or 720 small 4 or 7 mL vials.
- **Varisette™ sample changer** enables intermixing and counting of both large and small sample vials without special adapters. Includes both large vial (12-position) and small vial (18-position) cassettes.
- **Positive sample identification** provides protocol number, cassette number, sample number, and user-selectable printout and data file storage of the counting time and date for each sample.

Perkin Elmer Tri Carb Manual

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Table of Contents Perkin Elmer Tri Carb Manual

1. Understanding the eBook Perkin Elmer Tri Carb Manual
 - The Rise of Digital Reading Perkin Elmer Tri Carb Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Perkin Elmer Tri Carb Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Perkin Elmer Tri Carb Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Perkin Elmer Tri Carb Manual
 - Personalized Recommendations
 - Perkin Elmer Tri Carb Manual User Reviews and Ratings
 - Perkin Elmer Tri Carb Manual and Bestseller Lists
5. Accessing Perkin Elmer Tri Carb Manual Free and Paid eBooks
 - Perkin Elmer Tri Carb Manual Public Domain eBooks
 - Perkin Elmer Tri Carb Manual eBook Subscription Services
 - Perkin Elmer Tri Carb Manual Budget-Friendly Options

6. Navigating Perkin Elmer Tri Carb Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Perkin Elmer Tri Carb Manual Compatibility with Devices
 - Perkin Elmer Tri Carb Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Perkin Elmer Tri Carb Manual
 - Highlighting and Note-Taking Perkin Elmer Tri Carb Manual
 - Interactive Elements Perkin Elmer Tri Carb Manual
8. Staying Engaged with Perkin Elmer Tri Carb Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Perkin Elmer Tri Carb Manual
9. Balancing eBooks and Physical Books Perkin Elmer Tri Carb Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Perkin Elmer Tri Carb Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Perkin Elmer Tri Carb Manual
 - Setting Reading Goals Perkin Elmer Tri Carb Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Perkin Elmer Tri Carb Manual
 - Fact-Checking eBook Content of Perkin Elmer Tri Carb Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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