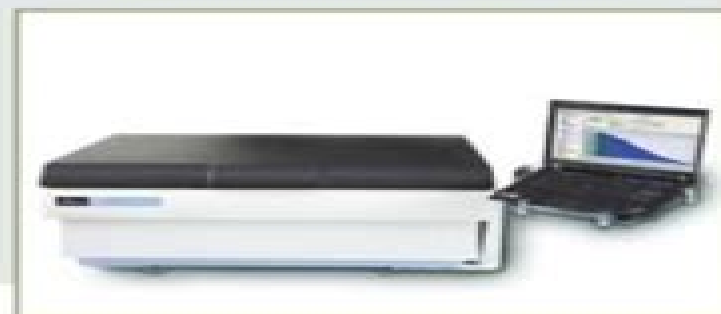


Liquid Scintillation Analyzers

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

Tao Wei



Perkin Elmer Tri Carb Manual:

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Molecular pathogenesis of pneumococcus Jorge Eugenio Vidal, 2023-05-11

Streptococcus pneumoniae the pneumococcus is a commensal of the human nasopharynx during childhood but also causes a variety of infections such as otitis media OM pneumonia bacteremia and meningitis mainly affecting infants the elderly and immunocompromised patients Pneumococcal pneumonia alone produces more child deaths every year than any other bacterial disease worldwide To date more than 90 distinct capsular serotypes have been identified Current pneumococcal conjugate vaccines PCV protect against 7 10 or 13 different pneumococcal types These vaccines have decreased the burden of pneumococcal disease produced by vaccine types but provide poor protection against non vaccine serotypes Additionally the increasing prevalence of multi drug resistant *S pneumoniae* strains results in more challenge for treatment of pneumococcal infections Therefore it is imperative to continue investigating the molecular pathogenesis of the pneumococcus There are currently a variety of key virulence determinants known to be involved in pathogenesis of pneumococcal disease Virulence factors and host immune defense are major players during pathogen host interactions Some metabolic pathways have also been shown to play a role in pneumococcal pathogenesis These metabolic pathways include proteins involved in copper efflux arginine metabolism and zinc homeostasis From the human host side new host factors have been found to play essential roles in clearance of *S pneumoniae* during infection such as microRNA 155 Moreover biofilm like structures may alter both pneumococcal phenotypes and the host immunity during nasopharyngeal carriage and or during disease Understanding the interaction between pneumococcus and its human host is a key to combat pneumococcal infections It has been well known for several years that pneumococcal pneumonia is worsened during poly microbial infection During the past few years rapid progress has been made in this area For example it was recently shown

that influenza A virus increases pneumococcal nasal colonization and it is a risk factor for pneumococcal pneumonia Other important respiratory viruses and bacterial pathogens such as Moraxella catarrhalis and Haemophilus influenzae appear to increase the risk of pneumococcal colonization and disease A better understanding of the molecular mechanism leading to these pathogenic synergisms will provide a fundamental basis for prevention and treatment of secondary pneumococcal infection The elderly population is generally more susceptible to pneumococcal infections In addition to their declined immunity alteration of the microbiome seen in the elderly may play a role for the susceptibility of infection Research with the elderly or using elderly animal infection models will largely enhance our knowledge and significantly reduce the morbidity and mortality caused by pneumococcal infections

Policy and Procedure in Research Pennsylvania State University,1974 **Herbicide Resistance in Weeds: Early Detection, Mechanisms, Dispersal, New Insights and Management Issues** Ilias Travlos,Rafael De Prado,Demosthenis Chachalis,Dimitrios J. Bilalis,2020-10-28 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

Molecular Pathogenesis of Pneumococcus Guangchun Bai,Jorge Eugenio Vidal,2017-10-10 Streptococcus pneumoniae has been for decades the number one bacterial killer of children in the world Although vaccination with pneumococcal vaccines PCV7 PCV10 and PCV13 children or PPSV23 adults has helped decrease the burden of pneumococcal disease PD mortality remains high Therefore pathogenesis studies are still key toward our understanding of PD and its control The introduction of pneumococcal vaccines has also created a niche for vaccine escape clones Moreover the rise of multi drug resistant clones around the world has also posed a serious threat in recent years The proposed special issue of Frontiers in Cellular and Infection Microbiology highlights many of the recent advances that have been made in pneumococcal pathogenesis colonization and antibiotic resistance by groups in Latino America Europe and the USA *Crosstalk Between Membrane Lipid Metabolism and Bacterial Cell Envelope Homeostasis* Heidi Vitrac,Nienke Buddelmeijer,Brian J. Werth,Libin Xu,Adriana E. Rosato,2022-04-27 *Vectors and Vector-Borne Parasitic Diseases: Infection, Immunity, and Evolution* Jun-Hu Chen,Emilio Luis Malchiodi,Xiao-Nong Zhou,Rachel Daniels,Banchob Sripa,2021-09-28 New Perspectives in Benthic-Pelagic Coupling in Marine and Transitional Coastal Areas Tamara Cibic,Martina Orlando-Bonaca,Fernando Rubino,2022-10-06 *Autophagy in Autoimmunity* Xu-jie Zhou,Panayotis Verginis,Jennifer Martinez,Marko Radic,2019-05-15 Handbook of Radioactivity Analysis Michael F. L'Annunziata,2020-03-07 Handbook of Radioactivity Analysis Radiation Physics and Detectors Volume One and Radioanalytical Applications Volume Two Fourth Edition constitute

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Recent Advances in Understanding Plant Hormone Transporters Markus Geisler, 2020-04-24 Since the first postulation of auxin function by the Darwins many other plant hormones have been identified and most of them have been found to be synthesized at different sites from their places of action Hormone transport and thus the responsible hormone transporters are therefore essential for a precise regulation of plant hormone action which has been repeatedly supported by severe developmental and physiological phenotypes reported for hormone transporter loss of function mutants Plant transporters have been shown to be involved in short and long distance transport of hormones Short distance transport between cells seems to be sufficient for a local hormone action in some tissues such as seeds which seem to require exporter and importer proteins in adjacent cells as shown for example for abscisic acid During long distance transport with the transpiration stream or in the phloem demonstrated for many but not all plant hormones including auxins abscisic acid cytokinins gibberelins strigolactones and salicylic acid transporters are thought to function in loading and unloading processes Similarly in cases where long distance transport is achieved by cell to cell transport such as for auxins the highly coordinated action of import and export transporters at the contact surfaces of neighboring cells is apparently needed however all these processes are far from being understood on the molecular level Currently it appears that many hormones are transported by members of distinct transporter classes ranging from primary active pumps that couple hormone translocation to direct ATP hydrolysis antiporters and symporters that use the proton motive force to create hormone concentration gradients and to facilitators Among those the ATP binding cassette ABC family and the Nitrate transport1 Peptide transporter family NPF seem to be dominant but currently it is unclear how individual

transporters cooperate to achieve a systemic level of transport Furthermore in most cases several pairs of importers and exporters are required but how these are correctly allocated in order to guarantee the function of a complex hormonal network is unknown While remarkable progress has been made on hormone transporter regulation on the transcription and post transcriptional level for transporters involved in long distance transport such as auxin regulation of transporter trafficking stability and activity is less understood for other hormones **The Journal of Nuclear Medicine** ,2009

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