

# What's New

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## Xenon Delivery

Nondisposable means for delivering  $^{133}\text{Xe}$  gas for rebreathing, wash-out, perfusion, and single breath studies are offered by the Model XDS-133 Xenon Delivery System of Telstar. The manufacturer reports that a study can be completed in 6 min with normal ventilation, but can be prolonged for more extensive washout procedures. —*Telstar, Box 595, Southold, NY 11971.*

## Skeletal Imaging

A new stabilized version of Osteoscan, the well-known diphosphonate skeletal imaging agent of Procter & Gamble, has been introduced into the market. Radiolysis byproducts are inhibited from affecting the product by the addition of sodium ascorbate, leading to an in vitro stability of up to 8 hr and greater compatibility with  $^{99\text{m}}\text{Tc}$ . —*Procter & Gamble Company, PO Box 171, Cincinnati, OH 45201.*

## Cardiac Analysis

A mobile Cardiac Function Analyzer provides data for ejection fraction, cardiac output, left ventricu-

lar volume, and pulmonary blood volume. The Analyzer features two NaI(Tl) crystal detectors and an arm to provide easy positioning of the detectors for supine or sitting patients. —*Tennelec, Inc., PO Box D, Oak Ridge, TN 37830.*

## Dose Calibration and Exposure Monitoring

A dual-function dose calibrator and radiation monitor is offered by Capintec. Two models, the CRC-4M and CRC-10M, were introduced recently to provide calibrations for more than 80 radionuclides in the range of 0.1  $\mu\text{Ci}$  to 200 Ci, and radiation exposure-rate measurements from 0.1 mR/hr to 20 mR/hr. —*Capintec, Inc., 136 Summit Ave., Montvale, NJ 07645.*

## Chromatography Cocktail

Scintrex is a new cocktail used for the liquid scintillation counting of samples displaced from solid supports. The displacement and solubilization of a compound from silica gel or any other common hydrophilic support is accomplished through a combination of toluene, a nonionic

surfactant, and water. —*J.T. Baker Chemical Co., 222 Red School Lane, Phillipsburg, NJ 08865.*

## Radioimmunoassay Aids

A clear polystyrene disposable tube carrier is offered as an aid to RIA testing. The 119-mm-long and 15-mm-wide tube will accept 100-mm-long by 13-mm-wide, 75-mm-long by 12-mm-wide, and smaller test tubes. The carrier has an enlarged rim for proper rest on a scintillation counter tube holder. —*Walter Sarnstedt, Inc., 743 Alexander Road, Princeton, NJ 08540.*

A syringe-like displacement pipet with glass tips is offered in the Micro/Pettor. The tips can be used repeatedly, as tests have demonstrated that carry-over between samples in successive transfers is less than 1/2%. This feature offers savings both in time and money over the conventional disposable tips. The Micro/Pettor has precisely limited stops for 5, 10, 25, 50, 100, 500, and 1,000  $\mu\text{l}$ ; this offers the system a claimed accuracy of delivery of 1% or better. Four attachments for other volumes are also provided with the kit. —*Scientific Manufacturing Industries, 1399 64th St., Emeryville, CA 94608.*

## Radioimmunoassay Kits

A T<sub>3</sub> solid-phase RIA system featuring glass particles to which antibody is covalently bound has been introduced. The glass particles provide the ease of single incubation and single centrifugation. The Immo Phase T<sub>3</sub> requires only two pipetting steps, one for 50  $\mu$ l of the serum and one for 100  $\mu$ l of the tracer. The kit is equipped with seven standards and both hyper- and hypothyroid reference controls. —*Corning Medical, Corning Glass Works, Medfield, MA 02052.*

Nuclear Medical Systems, Inc., announces the availability of four new kits. A system for measuring serum levels of Tobramycin uses <sup>125</sup>I-Tobramycin as the antigen for the immunologic reaction. The method is claimed to be more sensitive and specific than standard microbial assays. Each kit is supplied with five reagents and should be sufficient for 100 tests.

In addition, three double antibody methods using <sup>125</sup>I-estriol for the determination of estriol are also marketed. The first is used with estrogens extracted from serum or urine. A second method requires the hydrolysis of these hormones from urine. Finally, a direct assay method permits assay of minute amounts of estrogens directly in the biologic fluid, without the need for extraction or hydrolysis.

All three are based on the antigen, <sup>125</sup>I-estriol, competing with the estriol for binding sites on the antibody. A separation is then made of the bound from the free estriol by another antibody (provided with the kit). These kits should be sufficient for 100 tests each. —*Nuclear Medical Systems, Inc., 515 Superior, Newport Beach, CA 92660.*

Another direct assay method for estriol has been introduced by Wien. The assay is sensitive to 20 pg of estriol and requires only a 25- $\mu$ l sample of serum. The procedure is claimed to take less than 2 hr. —*Wien Laboratories, Inc., PO Box 227, Succasunna, NJ 07876.*

Iodine-125-digoxin RIA can now be conveniently performed using the new color-coded reagent system Rianen. The procedure combines a yellow buffer and a blue tracer, which turns the solution green, assuring positive identification and no skipped tubes. The one-hundred prenumbered reaction tubes per kit are coated with the antibody. All reagents are ready to use and control serum is provided. The digoxin-histamine tracer reportedly provides high stability and immunoreactivity. —*New England Nuclear, North Billerica, MA 01862.*

A <sup>125</sup>I-cortisol RIA kit which does not require organic solvent extrac-

tion or chromatography to isolate blood cortisol has just been introduced. The test depends upon boiling of the sample to denature the binding proteins. A run of 20 samples is claimed to take less than 90 min. —*Diagnostic Products Corporation, 12306 Exposition Blvd., Los Angeles, CA 90064.*

Tetrasorb-E is a new competitive protein binding test for the assay of T<sub>4</sub>. The entire 65-min test can be performed in one test tube and requires no extraction, evaporation, or incubation. The system uses an enzymatic extractant which frees T<sub>4</sub> by breaking down the binding proteins. The kit is available with 50, 100, or 500 units and includes all reagents and accessories. —*Abbott Laboratories, Abbott Park, North Chicago, IL 60064.*