



Blood Gas Quality Control

The Dynex system comprises a three-channel instrument which allows simultaneous equilibration of three solutions, each with a different pH, partial pressure of oxygen, and partial pressure of carbon dioxide. This enables one to prepare quality control solutions for blood gas analysis rapidly as equilibration is accomplished within 15 minutes. Analytical Products. Circle 720.

Neonatal Patient Monitors

The 414UA displays electrocardiogram, blood pressure or peripheral pulse, and respiration. A digital readout shows heart rate, systolic/diastolic or mean blood pressures, two temperatures, differential temperature or respiration rate. The 414UB does all of the above except monitor blood pressure. Recorders are available for either of these monitors. In addition to the ECG, pulse, or pressure waveform, alphanumeric information, including elapsed time, heart rate, respiration rate, two temperatures, systolic/diastolic, and mean blood pressures, is printed in the margin. Tektronix. Circle 718.

Digoxin Test Kit

A new test kit for radioimmunoassay of digoxin is based on a solid state test system. SPAC features a plastic section that becomes the closed end of the reaction tube. The antibody is coated on and covalently bonded to the surface of this plastic section. The coated section is sealed to a polypropylene cylinder to

form the tube used for the test. The patient's digoxin concentration is determined by comparing the percent of iodine-125-labeled digoxin bound to the antibody in the patient's reaction tube to the standard curve. The tubes may be placed in any gamma well counter for this determination. Mallinckrodt/Nuclear. Circle 721.

Thyroid Reagents

Liothyronine and thyroxine solutions with high specific activity (iodine-125) are now available. Liothyronine will be supplied at a specific activity of greater than 1200 microcuries per microgram in 20-microcurie and 100-microcurie packages. Thyroxine will be supplied at greater than 200 microcuries per microgram in 50-microcurie and 250-microcurie packages. These high-specific-activity thyroid hormones will be supplied in multidose vials in a solution of ethanol and water (3:1, volume-to-volume). Amersham/Searle. Circle 722.

Blood Bank Dry Bath

Model DB-12215E offers the advantages of dry test tubes reducing the chance of cross-contamination plus portability. The device has 40 wells for 12-millimeter test tubes. Temperature is controlled to within $\pm 0.25^\circ\text{C}$ at 37°C . Operating range is 30° to 56° and the bath heats up to 37°C in 20 minutes. Thermo-Lyne. Circle 717.

Respiratory Intensive Care

RICS II is a system for monitoring critically ill patients. It provides long-term trend monitoring of up to 16 patients and simultaneous short-term monitoring of any one patient. Up to 24 hours of data may be stored, displayed, or plotted for five respiratory parameters: fractional percent inspired oxygen, partial pressure of alveolar oxygen, partial pressure of al-

veolar carbon dioxide, inspiration to expiration ratio, and the respiratory rate. High and low alarms for the first two of these are individually set for each patient. The system consists of the Medspect gas analyzer, a control unit based on a fixed-program microprocessor, and a CRT display with a hard copier and a keyboard. Scientific Research Instruments. Circle 716.

Ion-Free Serum

Chemvarion is an ion-free serum which has numerous quality control applications for clinical practice and research. Chemvarion is a protein solution for the preparation of precise self-variable biochemical standards. It is free of all inorganic ions, most organic constituents, and enzymes whose analyses are commonly carried out. These constituents may be added in known amounts to provide high, low, and normal standards for research or for clinical diagnosis. Analyses are provided with each lot of Chemvarion. Clinton Laboratories. Circle 719.

Sample Divider

The Rotary Micro Riffler consists of a circular vibrating bowl and a sample collector. The collector is a rotating disk that holds eight test tubes. Rates of delivery and rotation are controlled. The bowl accommodates up to 75 milliliters for division into representative samples. Quantachrome. Circle 729.

Literature

Health Sciences Products Directory consists of 64 pages. Eastman Kodak. Circle 723.

pH in Plain Language describes fundamentals in basic terms with illustrations. Chemtrix. Circle 724.

Laboratory, Cryogenic Systems lists refrigerators, helium transfer systems, instruments and accessories. Air Products and Chemicals. Circle 725.

Condenser Lenses are available in a variety of focal lengths, diameters, and magnification ratios. Melles Griot. Circle 726.

Atomic Absorption Methods Manual is a guide book that includes special sections on individual elements. Fisher Scientific. Circle 727.

Accessories for Mass Spectrometers is a complete catalog. Vacumetrics. Circle 728.

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card (on pages 1226A and 1354A) and placing it in the mailbox. Postage is free.

—RICHARD G. SOMMER

PRODUCTS and MATERIALS

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