

Abbott's new Computerized Curve cuts testing time-shows values corrected for lab and lot variances

The standard curve is supplied as a table with corrections for variance pre-calculated for you by computer. Place the table in Abbott's new Compu-curve™scale. When hyper-hypo controls and tests have been run in the same manner, a glance shows you compensated values for the following factors:

1. Variances in thyroxine extraction efficiency. (Efficiency determinations are not needed.)

2. Variances between kits and in age of kits within their dating period.

3. Consistent variances within and between labs due to types of equipment, laboratory set-up, and individual techniques of personnel.

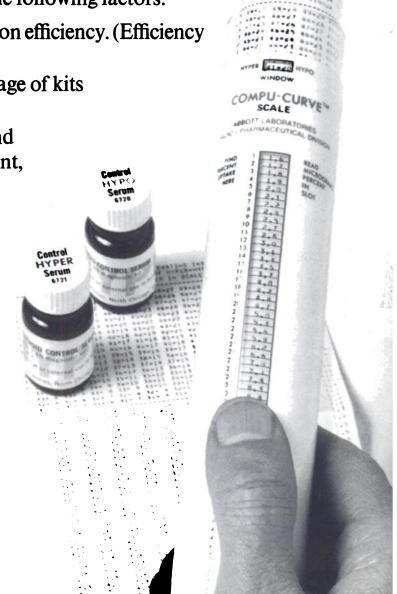
In short: You save time and money. Results are more easily compared within your laboratory, and with the results of others.

ABBOTT LABORATORIES

North Chicago, Illinois 60064

Radio-Pharmaceutical Products Division

In Europe: Labor-Service GmbH, Abbott European Radio-Pharmaceuticals, D 6236 Eschborn, Germany, Postfach 1245



QUANTISORB™ T₄N Diagnostic Kit



One step in Abbott's new T₄N thyroid test eliminates most false values due to TBG abnormalities.

After thyroxine is extracted from patient serum, 10 lambda of the untreated patient serum is added.

Pregnancy, estrogens—almost all external factors that can raise or lower thyroxine levels—are then balanced out or normalized by corresponding amounts of protein binding sites in the added serum.

Both Quantisorb (T₄N) and Tetrasorb[®](T₄) tests have the same normal range, and values are read in micrograms. When the tests are run together, the results are easily correlated, and provide several parameters for diagnosis. Values normalized to reflect thyroid status by Quantisorb are quickly compared with the total serum thyroxine levels shown by Tetrasorb.

How Quantisorb values correlated with thyroid status in 759 clinically diagnosed patients.

	Hypothyroid Range	Euthyroid Range	Hyperthyroid Range
472 Euthyroid Patients	7 Patients	461 Patients 98% Correlation	4 Patients
81 Hypothyroid Patients	74 Patients 91% Correlation	7 Patients	
109 Hyperthyroid Range		11 Patients	98 Patients 90% Correlatio
25 Pregnant Euthyroid Patients		24 Patients 96% Correlation	1 Patient
72 Euthyroid Patients on Estrogen	2 Patients	68 Patients 94% Correlation	2 Patients

How many data systems perform simultaneous real time image processing and general laboratory computation?

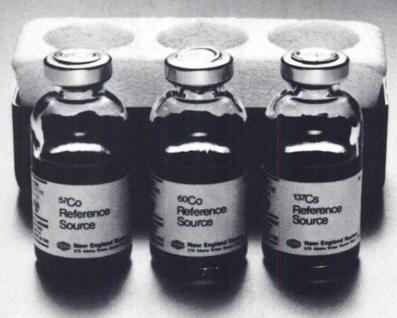
Just one.

With the Intertechnique
Cinescintigraphy system
you have a simple-to-use and preprogrammed system suitable for all your routine
clinical imaging needs. And at the same time a
powerful general purpose computer for radioimmunoassay determinations and other laboratory applications. Competitive systems promise
this dual versatility, but Raytheon delivers.

For image data processing you can choose between a hard-wired function approach

or utilize the clinically proven software. What's more, you can easily add programs specific to your clinical and laboratory requirements with LEM — our user-oriented language.

If it all sounds too good and simple to be true, challenge us. Call or write for more details on how our system can satisfy your present and future needs. Raytheon Company, Medical Electronics, 40 Second Ave., Waltham, Mass. 02154. Tel. (617) 899-5949.



Moment of truth for ion chamber detectors

Ion chamber detectors may sometimes lie — when they drift out of calibration. New England Nuclear's gamma reference sources can keep them honest.

If the ion chamber detector is going to surprise you, let it happen before the study. Check first with one of our gamma reference sources in a standard vial, so convenient that calibration can easily become a habit. Three sources for three energy ranges: ⁵⁷Co (low), ¹³⁷Cs (medium), and ⁶⁰Co (high). ¹³³Ba also available in a four-vial kit and all sources available individually.

Discover spurious readings before they spoil your studies. Send for complete information on our gamma reference source sets for ion chamber detectors.



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Canada: NEN Canada Ltd, Dorval, Quebec. Tel: (514) 636-4971 Europe: NEN Chemicals GmbH, D6072 Dreieichenhain, Siemensstrasse 1, Germany. Tel: Langen (06103) 8353

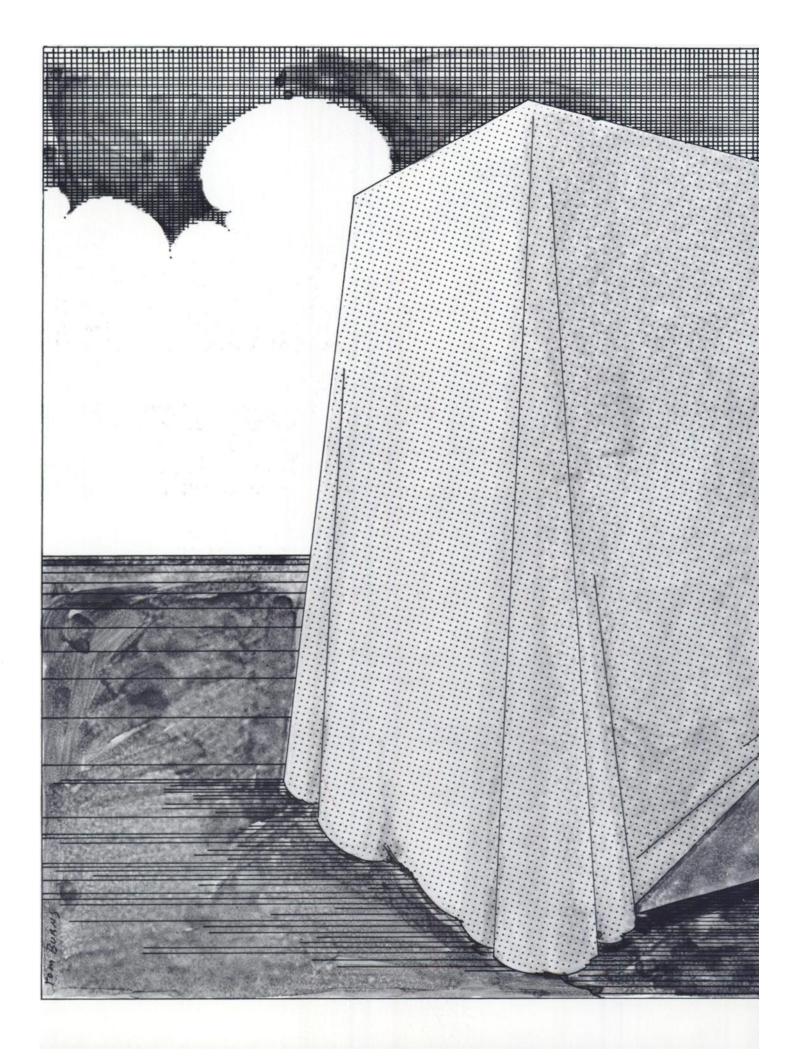


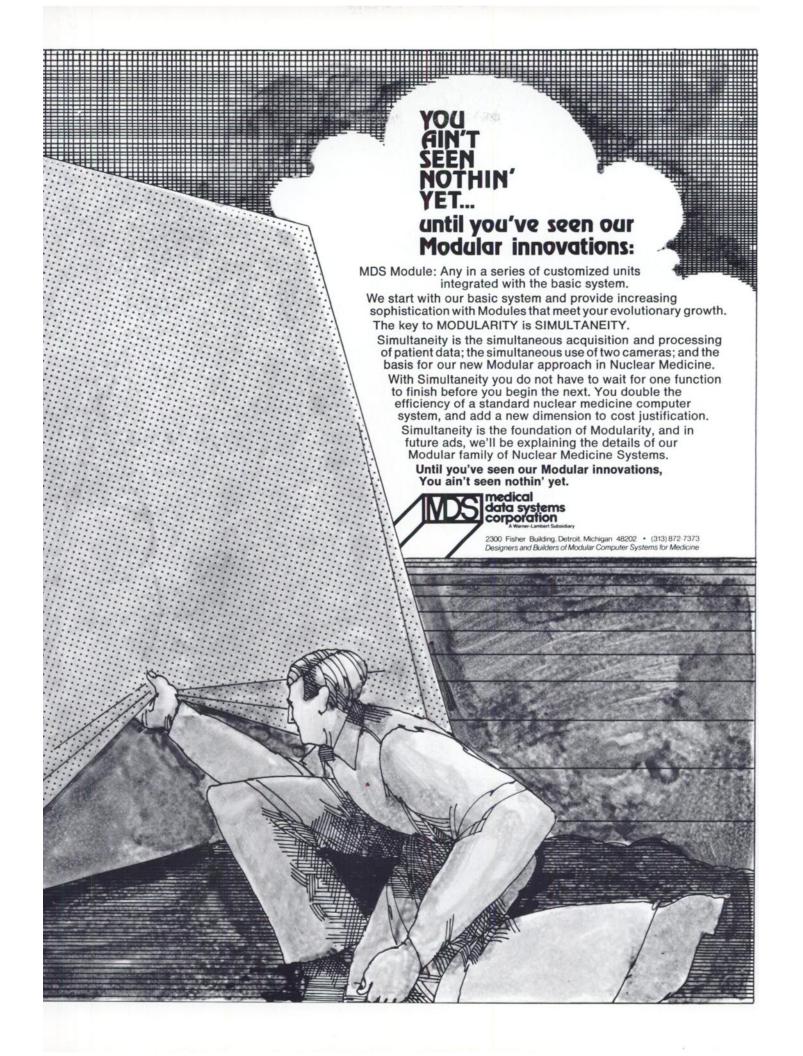
Simple and reliable in handling

Liver scintigraphy 2-10 mCi Commercial confection: Pack of 5 labelling kits No. TC 912



For further information and service please contact the Farbwerke Hoechst AG subsidiary in your country







CONSISTENT LUNG IMAGES day afterday afterday afterday! USE 99mTc ALBUMIN MICROSPHERES

- Uniform Shape and Size Perfectly spherical, the 3M Albumin Microspheres are uniformly sized to 15-30 microns in diameter. This uniformity, coupled with an extremely low tendency to agglomerate, results in truer images of lung perfusion. The result — no hot spots or extra-lung activity.
- Integral, yet Biodegradable
 Each Albumin Microsphere is a
 single homogeneous sphere of
 albumin they won't disintegrate
 in the vial or syringe. Yet,
 microspheres readily clear from
 the lung. Pulmonary clearance
 half-times are long enough for
 multiple view imaging but are
 still short enough to allow daily
 imaging, if required. Microscopic
 analysis of lung tissue in the
 mouse showed 99 percent of the
 administered microspheres
 were gone after 29 hours.1
- Data on file at the 3M Company and the Bureau of Biologica.

• Eliminate
Interference from
"Free" Technetium
"Free" isotope
need no longer
interfere with the
scan. The unique
filter construction of
the Microsphere Labeling Vial
allows the free isotope to be
removed, leaving just labeled
microspheres for suspension.

• Stable Kit

Currently the expiration date of each kit is 6 months after the date of manufacture. You can stock the kit and have it available for immediate use. Even a department doing a moderate amount of lung imaging can take advantage of quantity discounts.

• Each Lot FDA Approved
Thoroughly tested by 3M, each
lot is checked by the Bureau of
Biologics, FDA, and approved for
shipment. This provides a
double-check of sterility, lack of
pyrogens, and all the important
performance parameters of the kit.

INDICATIONS Scintillation imaging of the lungs with 99m Tc-Labeled Albumin Microspheres is indicated as an adjunct to other diagnostic procedures whenever information about pulmonary circulation is desired.

CONTRAINDICATIONS The safety of Albumin Microspheres in patients with a known right-to-left cardiac shunt has not been established and its use in such patients is contraindicated.

SIDE EFFECTS Although no anaphylactoid reactions have been reported in patients following the administration of Albumin Microspheres, the possibility should be considered that hypersensitivity reactions may occur rarely in patients who receive additional doses of the Microspheres.

HOW SUPPLIED Each kit contains five labeling units. Each labeling unit contains one day's supply of Albumin Microspheres (5mg — enough for 5 to 7 patients) plus all the reagents necessary to attach technetium to the microspheres.

For detailed information about Microspheres and the 3M Brand Albumin Microsphere **mTc-Labeling Kit, write: Nuclear Products for Medicine, 3M Company, 3M Center, St. Paul, Minnesota 55101, or phone TOLL FREE (800) 328-1671.





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with 4 New Features

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2. New ''lon Control'' Process (patent applied for) reduces aluminum level to a point where it is virtually undetectable by normal laboratory test methods. The eluate may be used with any of the currently available sulfur colloid kits or with other tagging

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- 3. New 500-ml saline supply allows as many as 15 or 16 elutions per week. The saline supply is built in and factory sealed, an exclusive feature of the new Ultra-TechneKow:
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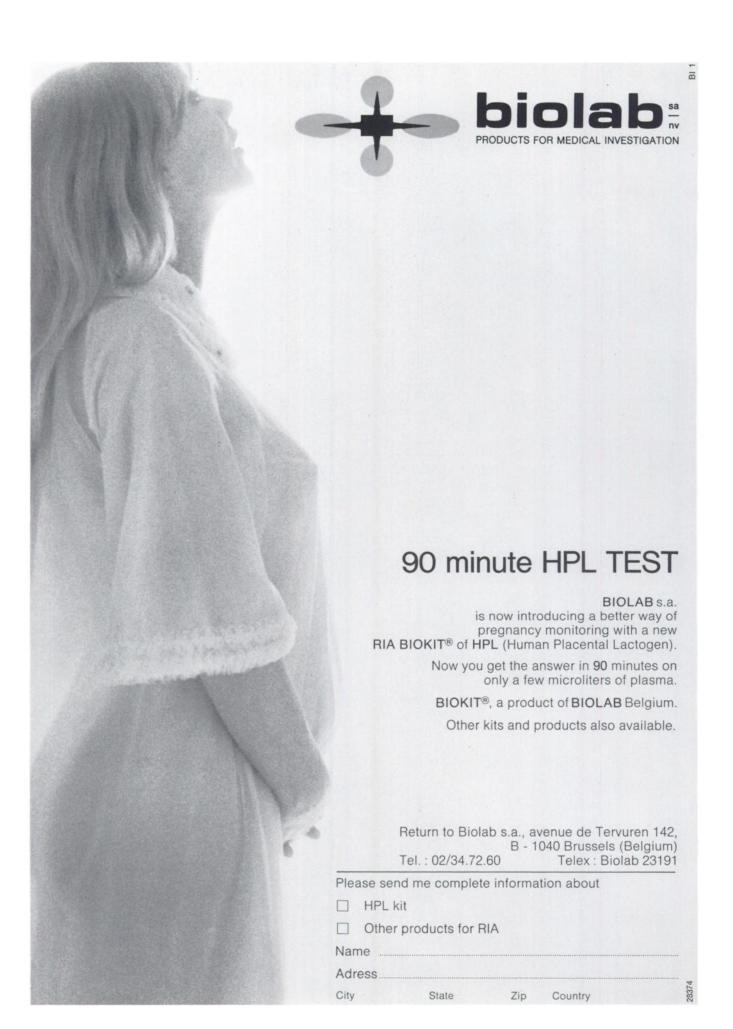
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Digoxin [125]] or [3H] Digitoxin [125] or [3H] Vitamin B₁₂ **Renin Activity** Insulin HPL HGH Cortisol Cyclic AMP

Write for data. Schwarz/Mann, Orangeburg, New York 10962

Concerned about over or under digitalization?



Then speak to your laboratory-they can now help you monitor digoxin and digitoxin blood levels.

Clearly the digitalis glycosides have been a mixed blessing. Their potential for good is inevitably coupled with the possibility of harmful effects due to inadequately low or toxically high blood levels. And then, as if the narrow margin of safety weren't enough, we also began to realize that there are variations in bioavailability of these glycosides. From glycoside to glycoside. From company to company. From one route of administration to another. From dosage form to dosage form. Sometimes even from lot to lot.

Yet, despite these multiple uncertainties, no really practical tool existed for monitoring digitalis glycoside blood levels. The result, according to some observers, can be serious. One worker stated that perhaps 20 to 25% of all digitalized patients are actually overdigitalized to the point of toxicity and that this situation had reached epidemic proportions.[1] Another reported that the mortality rate from overdigitalization ranges from 3% to 21%.1

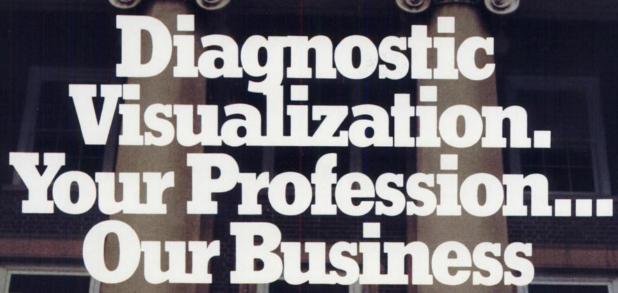
And in the same study, 11% of the digitalized patients previously thought to be on adequate daily maintenance therapy were actually shown to be underdigitalized. One recent report indicated that while an oral digoxin solution was completely absorbed, a digoxin tablet was only 75% absorbed.(3

Those are the problems. Now the news here is this: new radioimmunoassay techniques have been developed for monitoring digoxin and digitoxin blood levels. These are perfectly practical methods that offer exceptional sensitivity and specificity. So, if you're concerned about the problems of overdigitalization and underdigitalization, speak to your laboratory about the availability of these new radioimmunoassays. They can help minimize a serious problem. Perhaps you'll also be interested to know that we supply radioimmunoassay kits for renin activity and vitamin B₁₂ determinations. These, too, are characterized by unusual sensitivity, specificity and precision. Once again, speak to your laboratory. For further information, write Schwarz/Mann, Mountain View Avenue, Orangeburg, New York 10962

- (1) J. F. Doherty, Annals of Internal Medicine, May 1971.
- G. A. Beller, et al., New England Journal of Medicine,
- (3) D. H. Huffman, et al., JAMA, November 20, 1972.



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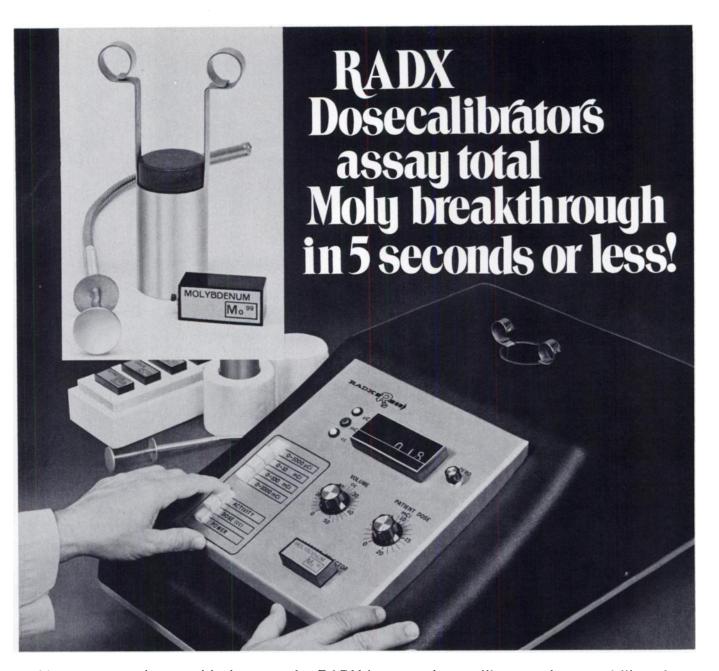
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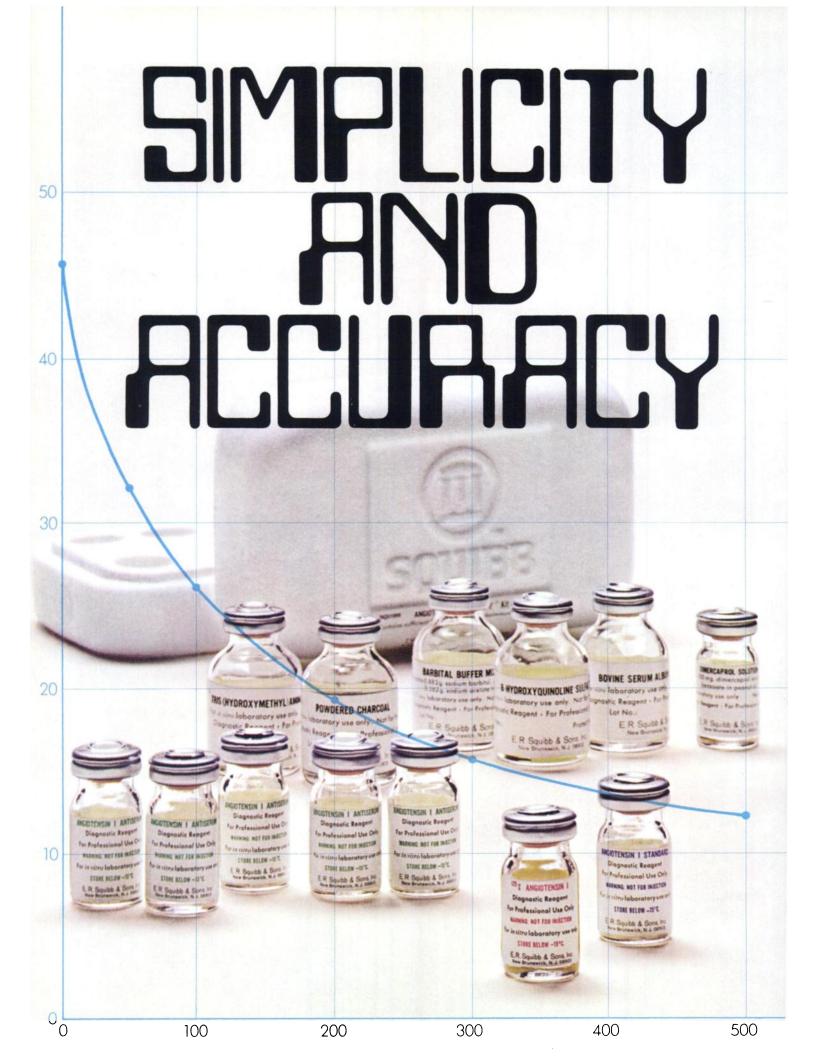
3. Electronic computation of the volume to be injected for a prescribed millicurie dose.

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Usual work time is significantly reduced because the reagents are premeasured. Because there's no need to run repeat blanks. No ice baths required as with another similar kit...all Angiotensin I Immutope procedures, except for incubations, are done at room temperature. No need to make up fresh reagents every time a series is run...properly stored, the diluted ¹²⁵I Angiotensin I solution lasts for a week, the Tris Acetate Buffer with BSA for a month, and the remaining reagents for three months.

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for determination of plasma renin activity by radioimmunoassay

ANGIOTENSIN I IMMUTOPE KIT

combines the extreme sensitivity of radioisotope methodology with the extreme specificity of immunologic techniques

(SQUIBB radioimmunoassay kits are identified by the trade name, IMMUTOPE.)





"No, 'tis not so deep as a well, nor so wide as a church-door; but 'tis enough, 'twill serve." - SHAKESPEARE

Mr. Shakespeare was obviously not thinking of our new ICON 380 Scintillation Camera when he wrote those words. But compared to other Cameras, the ICON 380 is a very deep well and a very wide church-door indeed. (We agree that wells and church-doors are hardly accurate units of measure, but we like the quotation). For those who insist on more exact terms, here is what the new ICON 380 offers:

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the tapered body of our new sterile Tc 99m generator.

At The Radiochemical Centre we believe in meeting the customer's needs exactly. So, before designing our new sterile technetium-99m generator, we asked users of sterile generators to define precisely the improvements they would like to see. First on the list of improvements was a smaller elution volume with a higher radioactive concentration, making bolus injection a feasible operation if required.

To meet this requirement we designed an entirely new kind of body, tapered to give maximum length with minimum volume. The length of the bed is sufficient to eliminate molybdenum-99 breakthrough, whilst the volume substantially reduces the amount of eluate required.

Within the body, the stability of the elution bed is maintained by a spring-loaded frit so that there is no disturbance by sterilization or trans-

port and minimum risk of channelling. This ensures consistently good yields, from generator to generator and from day to day.

Also included in the body is an improved filter system, using nylon mesh instead of sintered glass—making for more reliable elution with fast reproducible flow, and no blockage by particles.

Finally, we chose plastic as the material for the body, because it is tougher than glass and eliminates the risk of radioactive contamination due to breakage during transport and handling.

In keeping with the simplicity and efficiency of the body, you will find that the total operation of The Radiochemical Centre generator is remarkably fuss-free.

The positive pressure flow system allows maximum control of operation with easy possibility of fractional elution (and no evacuated

vials to go wrong), which means that the volume of any fraction can be as small as the user demands.

Slotted lead end plugs are used (so there is as much shielding above and below the generator as there is around it) with special right angle needles in the eluent flow line: this eliminates the need for holes above and below the generator and minimises the radiation dose to the operator.

The generator is free-standing, takes up the minimum amount of space on the laboratory bench, and requires no elaborate extras.

It allows you, the user, full control over a safe and reliable system which can be used to deliver the daughter isotope in discrete fractions of maximum radioactive concentration.

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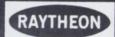
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and the MED II for image processing

Because the gamma camera, even if it's a Radicamera, is still only *half* of a modern imaging system.

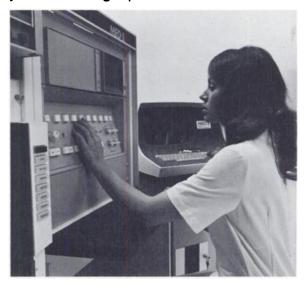
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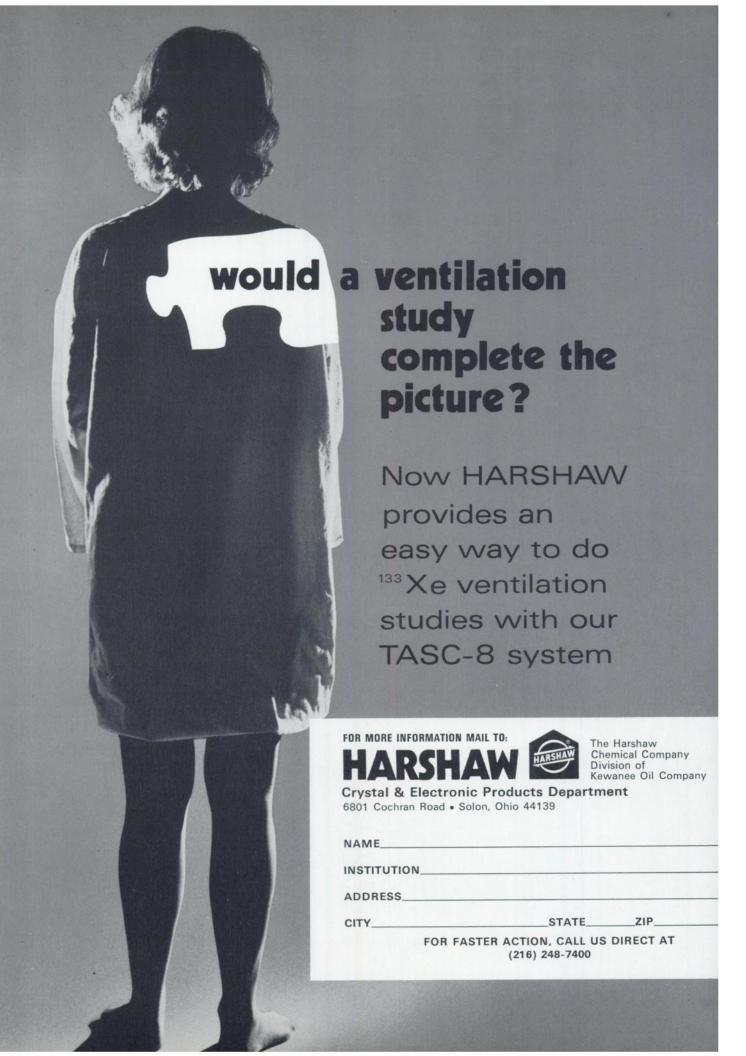
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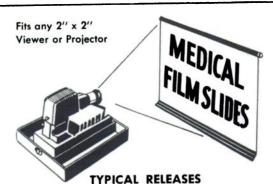
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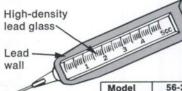
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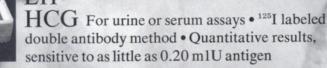


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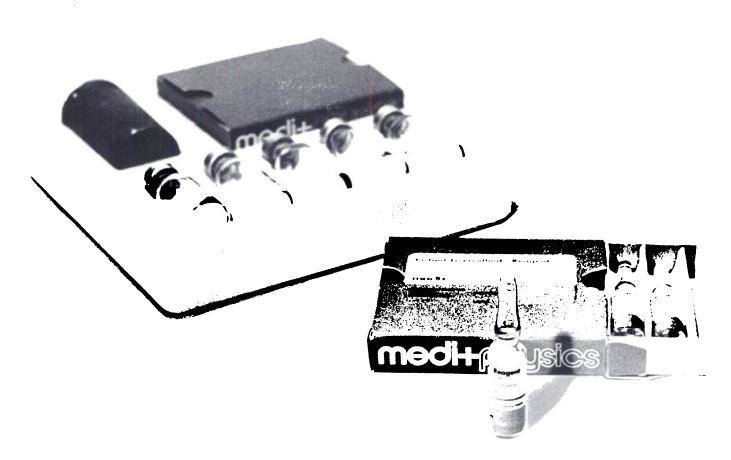
STATE_

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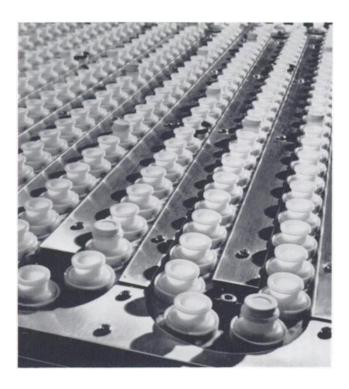
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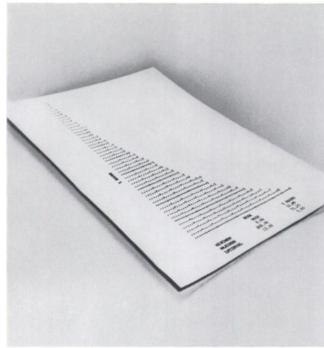
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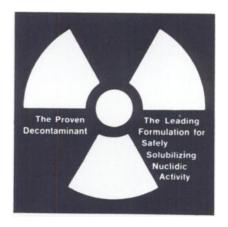
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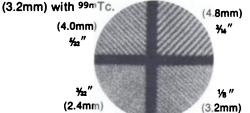


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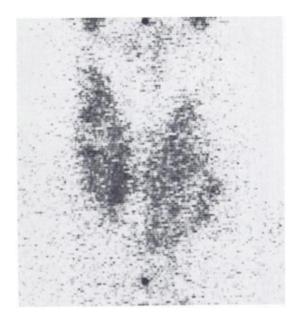
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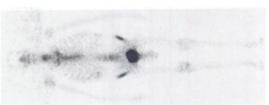
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All scans may be viewed with a choice of image display: standard film photorecording or GE's optional Videodisplay unit.

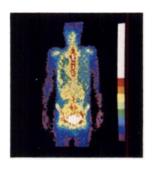
Hospitals report scanning performance like this from the Maxiscan system:

These reproductions of scans, from clinical examinations, illustrate the range of diagnostic information possible with Maxiscan and the Videodisplay Processor.

A GE motion picture demonstrates the full capability of both units. Ask your GE representative to schedule a desk top showing, at your convenience.



Don't miss seeing Maxiscan and the VDP at the SNM Meeting in Miami Beach

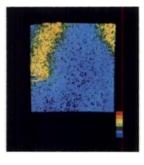






These three images, from a single whole body scan, demonstrate how manipulation of data stored in the VDP electronic memory can enhance desired details and aid diagnosis. The isotope used was ^{99m}Tc Polyphosphate. At left, an anterior view displays raw, unmanipulated data from the

memory. At right, smoothed data is shown with a Y axis electronic slice through the area of suspicion. The count profile superimposed over this image and shown separately, center, confirms greater uptake on the right side. The photorecorded image showed only a suspicion of greater isotope uptake.





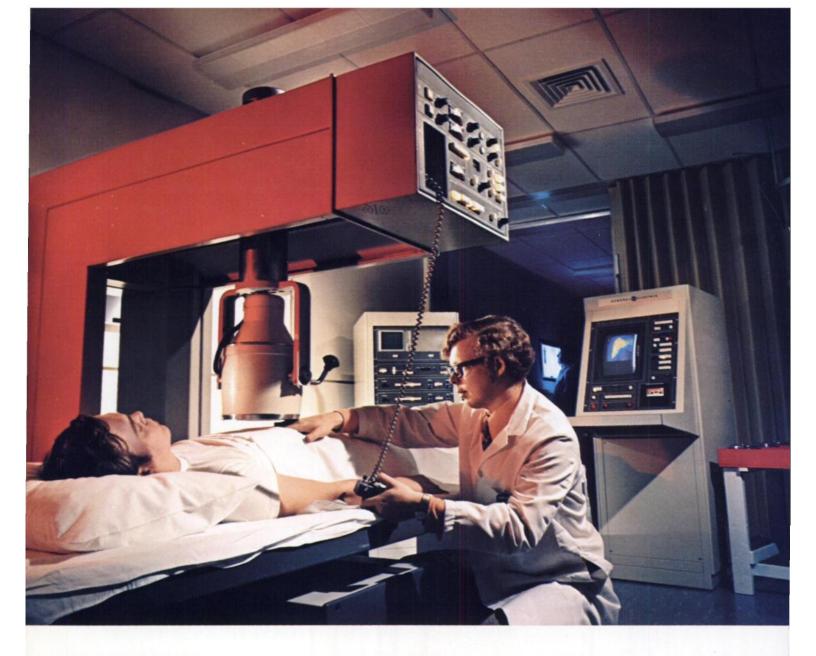


In a case of suspected pericardial effusion, a transmission scan (left) of the chest was obtained using an lodine 131 source. An emission scan (center) of the same region was simultaneously obtained with the same probe, 15 minutes after an intravenous injection of ^{99m}Tc labeled albumin. The heart and liver are outlined. Note how the intracardiac activity (central area of center scan) fails to fill the large mediastinal shadow (central blue

General Electric Medical Systems, Milwaukee and Toronto. In Europe, Elscint GmbH, Wiesbaden; Elscint France SARL, Buc. area of left scan). This discrepancy, between heart size and that of the mediastinum, is more easily seen when these two scans are superimposed (right); a technic easily accomplished on the VDP. The resulting diagnosis, a large pericardial effusion which appears to be predominantly left-sided, was confirmed by the aspiration of 1800 ml. of fluid from an encysted pericardial effusion.

Scans courtesy of Dr. M. J. Chamberlain, University Hospital, London, Ontario.





Videodisplay Processor

To view and quantify patient count information in black and white or fully functional color, Maxiscan can be combined with GE's Videodisplay and Processing Unit. Images are displayed on a video monitor; count data is stored in the unit's electronic memory, and can be manipulated to enhance desired details and to aid interpretation and diagnosis. Enhanced VDP data may be played back to Maxiscan and recorded on 14 x 17 inch film. Scans can also be recorded on cassette tape for off-line playback and teaching

purposes. Count information, obtained from any scanner or camera, can be transmitted from one VDP to another over regular telephone lines.



GENERAL ELECTRIC

Here's the information hospitals are getting with Maxiscan...

Clinical Newsletter

from Bio-Rad

Straight talk about a new T-3 test

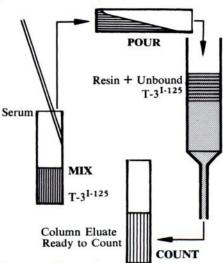
Bio-Rad's new TRI-COUNT T-3 combines simplicity, reproducibility and low cost.

Bio-Rad recently introduced a new T-3 by column test called **TRI-COUNT** that combines simplicity and reproducibility at a price you may find hard to believe. We accomplished all this by utilizing the same ion exchange technology as the Bio-Rad T-4 by Column Test. We kept the test as simple and uncomplicated as possible, building the reproducibility into the test itself rather than depending on operator technique.

Simplicity

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The sample is first mixed with radioactive T-3 buffer solution and allowed to stand at room temperature 15 minutes or more. The time is not critical. If the operator can't get to the next step for an hour it won't make any difference in the final results. Next, the mixture is poured into the TRI-COUNT T-3 column and the eluate collected. Finally, the eluate is counted to determine T-3 value. That's all there is. No centrifugation, no incubation, no precise timing. It's a simple matter of mix, pour, count.



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Reproducibility

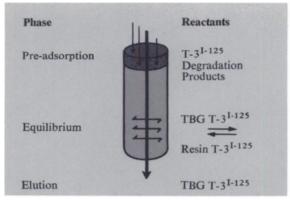
TRI-COUNT T-3 has the highest degree of reproducibility of any T-3 test now on the market. There are three major reasons for this.

 The close control of the ion exchange resin manufactured by Bio-Rad specifically for this T-3 test.

The simplicity of the test that practically eliminates any effect of differences in operator technique.

The elimination of hormone degradation products as a cause for error. The TRI-COUNT T-3 column is designed to adsorb hormone degradation products and separate them from the equilibration reaction.

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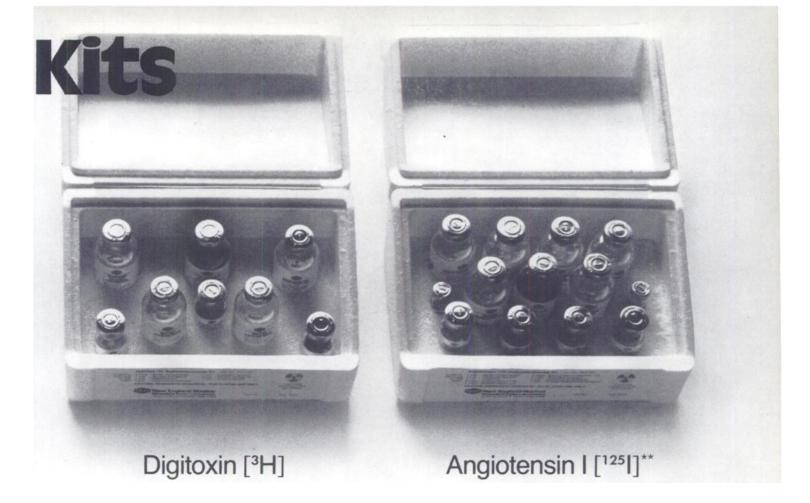
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^{*}Human placental lactogen

[&]quot;Plasma renin activity

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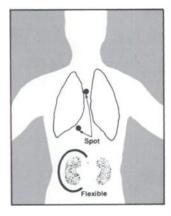
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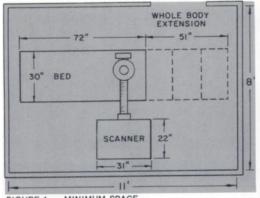






FIGURE 1 - MINIMUM SPACE

FIGURE 3 - MINIFICATION, 5:1

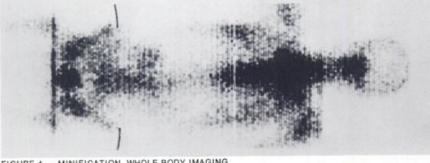




FIGURE 4 -- MINIFICATION, WHOLE BODY IMAGING

FIGURE 5 — VERTICAL SCANNING

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Nuclear Division

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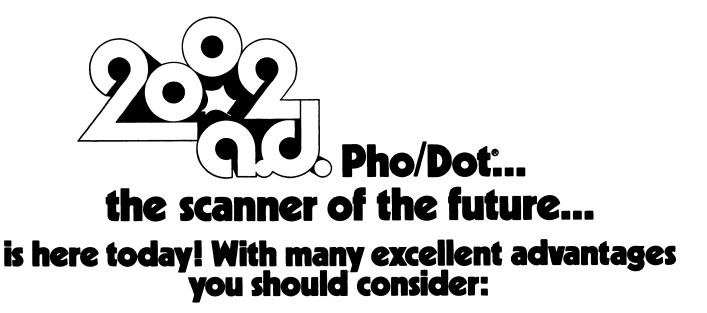


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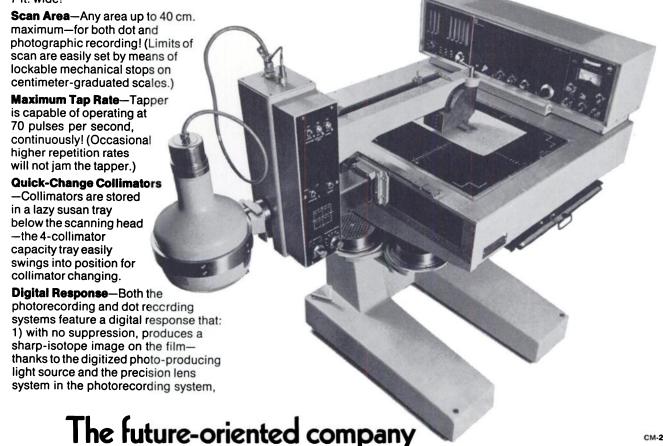
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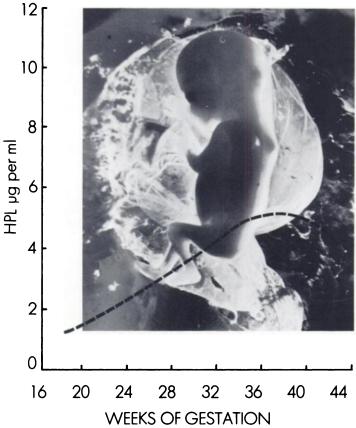
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PHYSICIST, PH.D. NUCLEAR PHYSics, experience and training in nuclear medicine, teaching nuclear medicine, teaching nuclear medicine, teaching nuclear medicine residents and technologists, radiological physics, isotope production, animal studies, research, computers, electronics. Seeks position in nuclear medicine. Box 502, Society of Nuclear Medicine, 211 East 43rd Street, New York 10017.

NUCLEAR CHEMIST, Ph.D., EXPERIenced in labeling pharmaceuticals, activation analysis, radioisotope production, FDA drug regulatory affairs, teaching, seeks position in New York metropolitan area. Please write to Box 503, S.N.M., 211 E. 43rd St., New York, N.Y. 10017.

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of the

SOCIETY OF NUCLEAR MEDICINE

October 26, 27, 1973 Newport Beach, California
NEWPORTER HOTEL

The Scientific Program Committee welcomes the submission of abstracts of original contributions in nuclear medicine from members and nonmembers of the Society of Nuclear Medicine. Abstracts from Technologists, and new and young members are encouraged.

INSTRUCTIONS

- Abstract format should follow the "Abstract Reproduction Form" used for the National Meeting.
- Abstracts must be postmarked before July 1, 1973.
- 3. They should contain: Purpose, Methods, Results, Conclusions.
- Separate sheets with supporting data should be included.
- The original and four copies of 3 and 4 should be submitted to:

Joseph L. Izenstark, M.D. 1703 27th Street Bakersfield, Calif. 93301

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June 4-8, 1973 August 27-31, 1973

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November 14, 15, 16, 1973

Sheraton Palace Hotel

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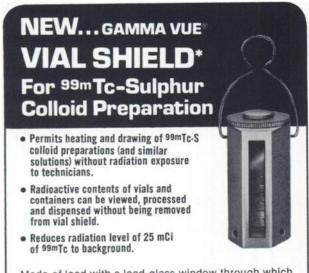
Original papers describing significant contributions in the following or related areas are invited:

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- Low Level Environmental Radionuclide Analysis Systems Nuclear Techniques in Elemental Analysis Nuclear Techniques in Biomedicine

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- Nuclear Instrumentation

Each author should submit 10 copies each of a 50-word abstract and a 500-word summary. The abstract must be typed on a separate page and include the title, author's name, affiliation, complete address and telephone contact. The summary will be used as a basis for paper selection. It should include concise statements of results and interpretation of the significance of the work. Illustrations and figures will facilitate the selection. All papers accepted for the Symposium will also be candidates for the Symposium issue of the IEEE Transactions on Nuclear Science subject to another review. It is not necessary to be an IEEE member to present a paper. Manuscripts of accepted papers must be prepared in IEEE format and must be submitted at the time of the Symposium.

Abstract and Summary deadline: June 15, 1973 P. L. Phelps, Program Chairman L-523, Lawrence Livermore Laboratory Box 808, Livermore, CA 94550 Tel: (415) 447-1100, X-8311



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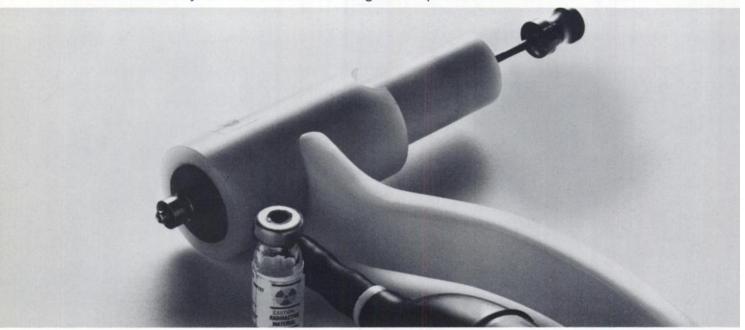
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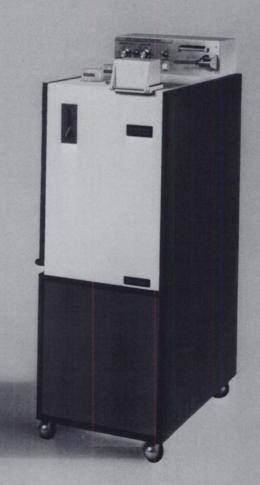
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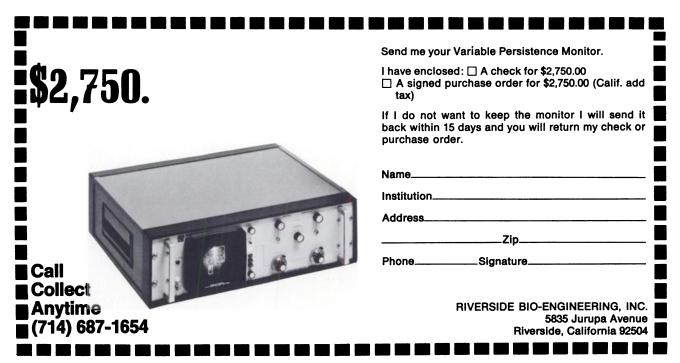
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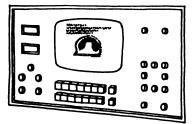




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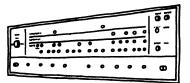
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