



## Thyroid testing— As easy as throwing in the sponge!

**The Triosorb Sponge is an in vitro test providing accuracy, speed and convenience.**

**Accuracy:** Because factors such as red blood cells and exogenous iodine have been eliminated from consideration in the Triosorb Test, it is unsurpassed in accuracy.

**Speed:** With only 3 washes and no need for double pipettings, shakers, or incubators, the Triosorb Test can be more rapidly performed than any other T-3 test.

**Convenience:** Available in a disposable kit ready for immediate use at room temperature. There is no dilution or pipetting of radioactive materials with Triosorb. It is the simplest and most convenient thyroid function test to perform.

“The resin sponge (Triosorb) technique is superior to the erythrocyte method for performing the  $I^{131}$  T3 test in terms of simplicity, convenience and elimination of errors characteristic of the erythrocyte procedure.”<sup>1</sup>

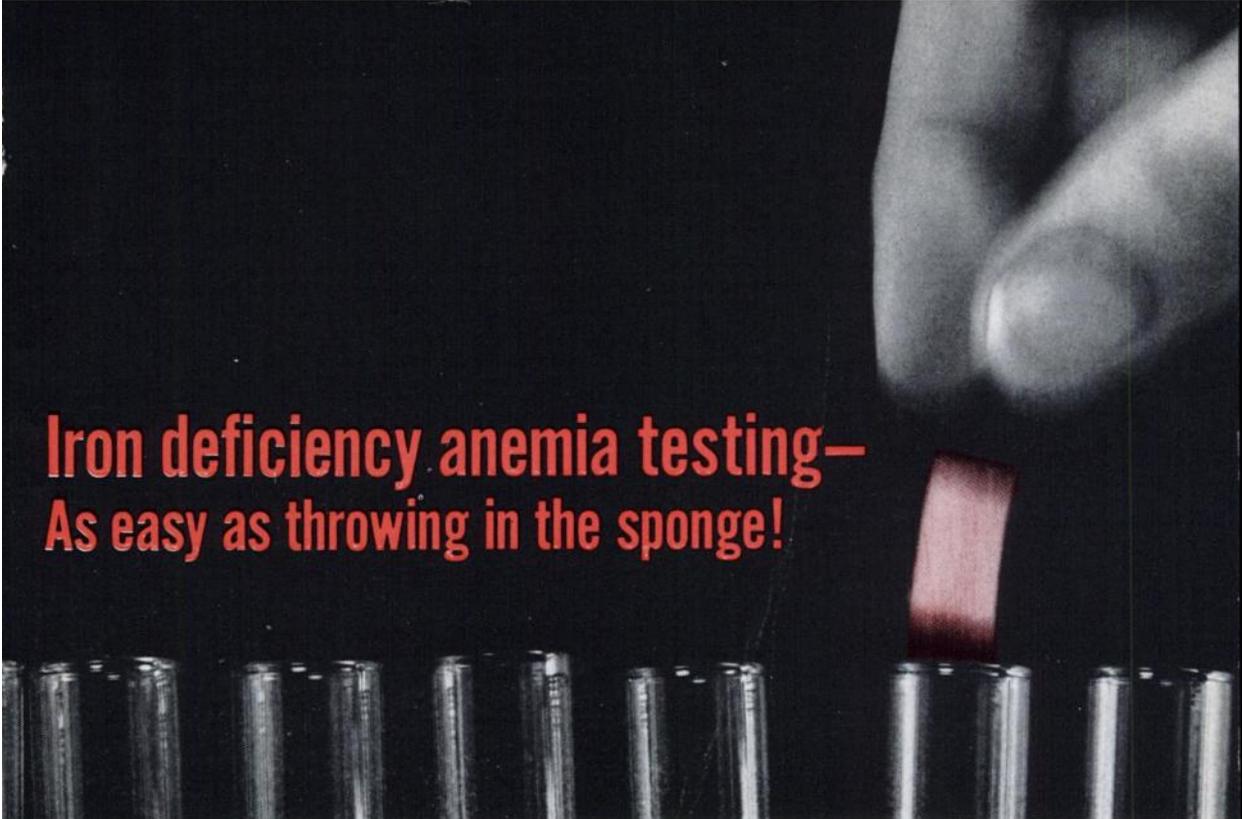
“The T-3 uptake test was vastly improved by a resin-sponge . . . (Triosorb) . . . which is offered as a replacement for the red cells as well as for the loose granular resin which varies from day to day.”<sup>2</sup>

**Triosorb is available to all doctors, hospitals and clinical laboratories—  
AEC licensing is not required.**

1. McAdams, G. B., and Reinfrank, R. F., J. Nuclear Med., 5:112, 1964.
2. Manfredi, O. L., et al., J. Nuclear Med., 7:72, 1966.



**TRIOSORB®-I31**  
T-3 DIAGNOSTIC KIT  
ABBOTT LABORATORIES NORTH CHICAGO, ILLINOIS



**Iron deficiency anemia testing—  
As easy as throwing in the sponge!**

Irosorb-59 is the second in a series of **in vitro** radio-pharmaceutical tests developed by Abbott Laboratories. **The Irosorb-59 Sponge offers a remarkable degree of accuracy and simplicity that makes routine screening a practical matter.**

**Accuracy:** The diagnostic accuracy of the test is unsurpassed in measuring latent iron-binding capacity. What's more, unlike other methods, it can be used following the administration of a hematinic.

**Speed:** Irosorb-59 can be washed quickly, there being only 3 washes. No incubators or shakers are needed.

**Convenience:** Irosorb-59 is in a disposable kit form ready for immediate use at room temperature.

**Safety:** No dilution or pipetting of radioactive material is necessary. Since the patient receives no radioactive materials, the test can be used in children, pregnant women, or in adults without any hazard of radioactivity.

**Flexibility:** The test does not require the presence of the patient for the determination of the radioactivity. Serums can be frozen and saved until a sufficient number has been collected to run a rack full of tubes at one time, or serum samples can be mailed to personnel performing the test.

**Irosorb-59 is available to all doctors, hospitals and clinical laboratories—  
AEC licensing is not required.**

709418



**IROSORB-59®**

**DIAGNOSTIC KIT**

**ABBOTT LABORATORIES NORTH CHICAGO, ILLINOIS**



## Stercow

### Shielded Milking System

a new design

The Stercow together with the Shielded Stercow Milking System offers a unique possibility

to minimize radiation exposure  
to maintain sterility  
to save laboratory time.

DRN 4332 Technetium (Tc99m) Stercow

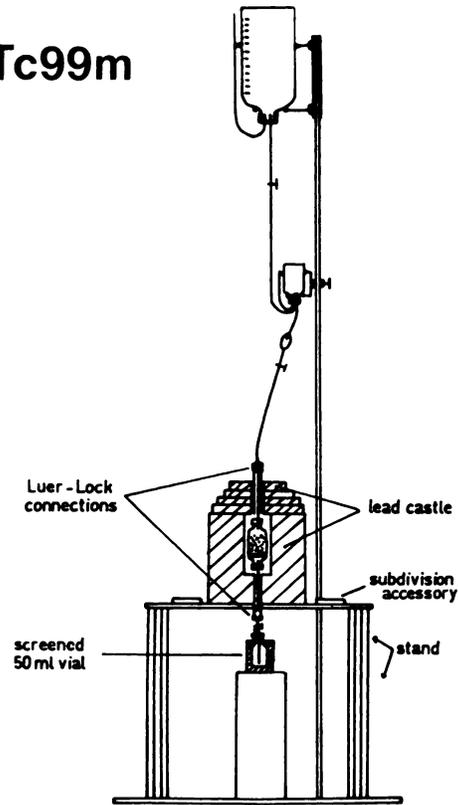
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10 mC	Dfl. 150.—
25 mC	Dfl. 180.—
50 mC	Dfl. 230.—
100 mC	Dfl. 300.—
150 mC	Dfl. 355.—
200 mC	Dfl. 400.—
250 mC	Dfl. 440.—
300 mC	Dfl. 475.—
350 mC	Dfl. 505.—
400 mC	Dfl. 530.—
500 mC	Dfl. 580.—
600 mC	Dfl. 630.—

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Mondays after 18,00 hours M.E.T.

Ask for Isotip nr. 5

## Tc99m



DRN 4343 Shielded Stercow Milking System.  
Price ex works Amsterdam Dfl. 1175,—.

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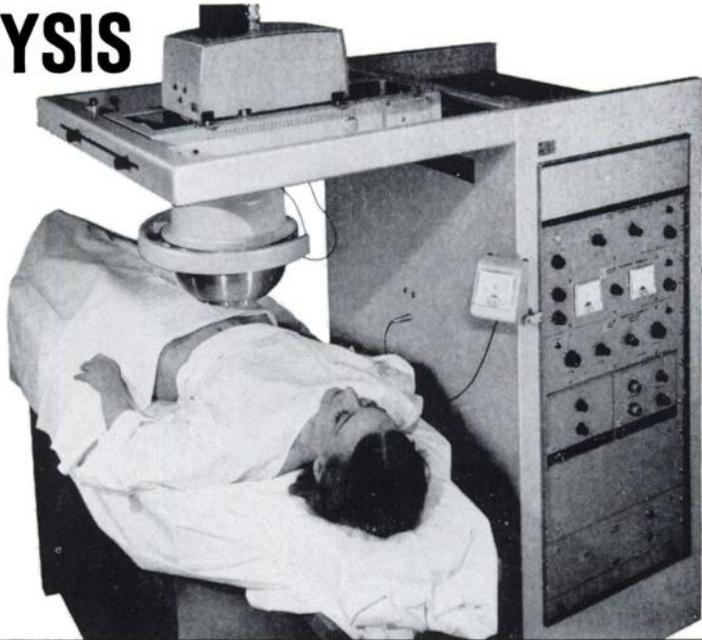
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## MEDICAL SCANNER

**MODEL CS-500A-3**  
3-inch probe

**MODEL CS-500A-5**  
5-inch probe

In nuclear medicine, the CS-500 Medical Scanner is a valuable clinical tool for organ or tumor visualization, providing a powerful adjunct to the diagnostic skills of the physician.

The CS-500 features photorecording on X-ray film and teledeltos paper recording to display the distribution and concentration of isotopic labeled compounds localized in selected organs and areas of the human body. Studies utilizing the most recent scanning techniques with newly developed radioactive compounds may be done accurately and quickly.

Truly significant differences are revealed, even at low count rates, by the electronic elimination of background, and expansion of the remaining data photographically over the entire contrast curve.

Mechanically, the CS-500 is simple to operate. Either a unidirectional or a bidirectional mode may be used to direct the scanning movement of the probe in the horizontal plane. The height of this scanning plane above the subject is push-button controlled.

For PENETRATING ANALYSIS, the clinician can have confidence in the CS-500 Medical Scanner because of its proven performance in scores of leading medical institutions throughout North America.

Write to the Nuclear Instrument Department for brochure CS-500.

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**Sodium Pertechnetate  
Tc 99m with  
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COMPLETE SYSTEM  
by Mallinckrodt/Nuclear  
(formerly Nuclear Consultants)**



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of a full line of radiopharmaceuticals.

\*new sterile, pyrogen-free TechneKow-CS Generator;  
also supplied in dual purpose shipping shield

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Now, the new Mallinckrodt/Nuclear **TechneKow-CS** Generator provides a truly *complete* laboratory procedure — with all equipment necessary — for daily production and immediate assay of injectable sodium pertechnetate Tc 99m for use in brain scanning.

*Complete System* includes the new **TechneKow-CS** (closed system) Generator . . . completely sterile and pyrogen-free to meet all of the requirements of the US AEC and agreement states. An exclusive double chamber design permits injection of the eluant solution into the unique vacuum/pressure eluting system . . . also provides a reservoir below for complete solution removal from the alumina column.

Milking is simple and rapid. The vacuum in the collecting vial, combined with elevated pressure in the generator, causes the eluate

solution to be forced rapidly through the milking system. The milking needle makes no contact with the alumina. The closed milking system eliminates venting to the atmosphere. And the **TechneKow** Shielded Dispenser offers additional convenience, eliminating the necessity for a cumbersome "hot lab".

**Major Advancement in Assay and Calibration**  
Mallinckrodt/Nuclear's Complete System solves the complicated, time-consuming process of assaying  $^{99m}\text{Tc}$  and checking for  $^{99}\text{Mo}$  contamination, with the simple and easy-to-use **MOLYTECH™** Assay Kit. The Kit utilizes calibrated standards and a fast, direct method for quick daily assay of the milked solution.

Mallinckrodt/Nuclear will be happy to answer all inquiries and render assistance in obtaining necessary user licenses. Call or write today.



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## **RADIOPHARMACEUTICALS**

(formerly Nuclear Consultants)

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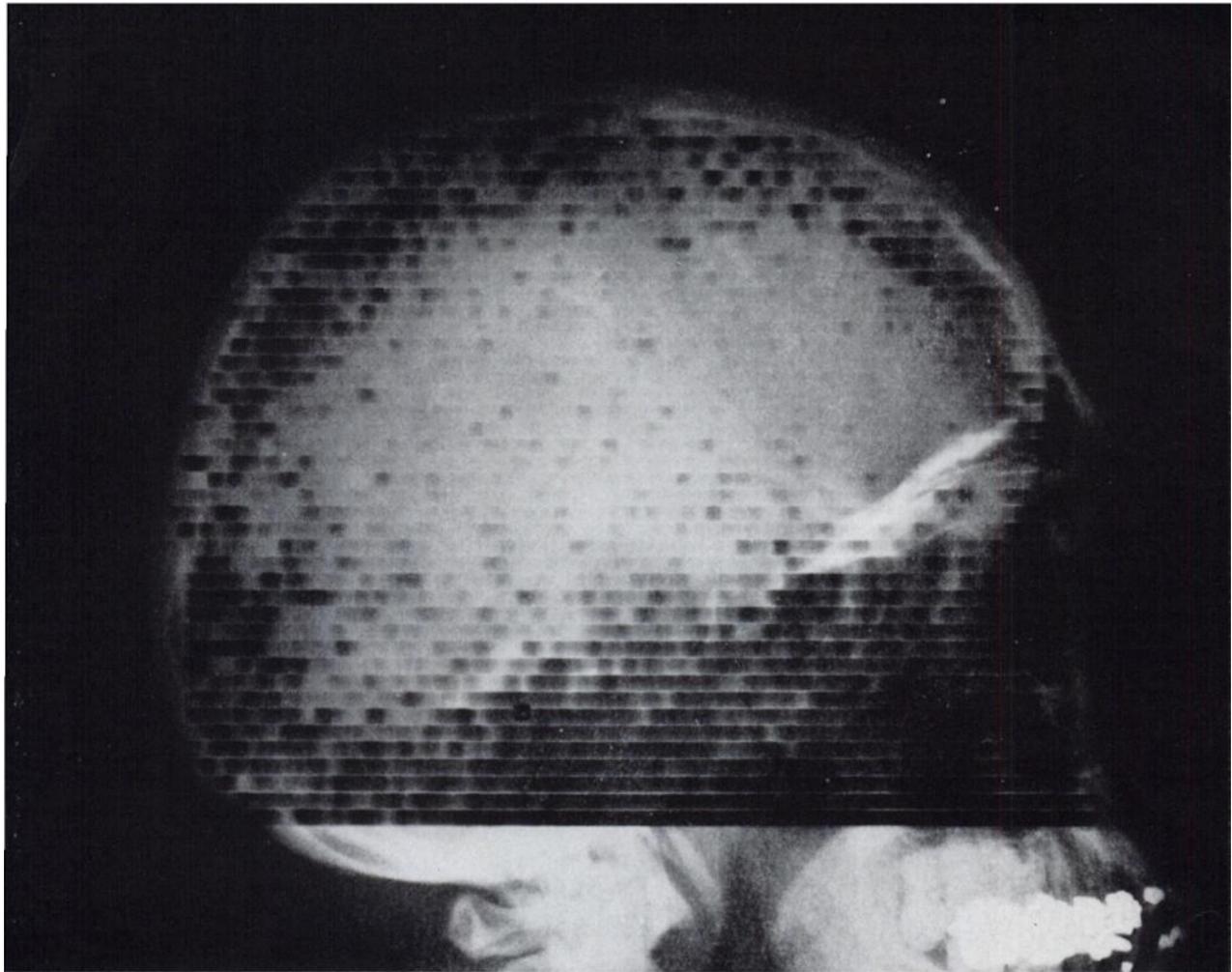
**CONTRAINDICATIONS** — Radiopharmaceuticals are contraindicated in pregnancy and during lactation and in persons less than 18 years of age, unless in the judgment of the physician the situation requires their use.

Sodium pertechnetate  $^{99m}\text{Tc}$  should not be administered orally to patients who have recently ingested aluminum hydroxide or other similar antacid preparations, since such compounds may interfere with the absorption of the radioisotope.

**PRECAUTIONS** — Adequate care should be taken to minimize the radiation exposure to the patient and other individuals involved in the procedure. Any physician employing a radioactive drug should be thoroughly familiar with the technique and the clinical literature as well as the equipment required for its use. In addition, users should be knowledgeable concerning the safe handling of radioactive materials.

When making withdrawals from the Collecting Vial, do not remove the Vial from its protective lead shield. Note: Solutions obtained from the **TechneKow-CS** Generator should be free of particulate matter. Any solutions containing visible particulate matter should not be administered.

**SIDE EFFECTS** — At the dosages employed in diagnostic scanning procedures, side effects are rarely, if ever, encountered.



**Abbott announces**  
**Pertscan™-99m**  
SODIUM PERTECHNETATE Tc 99m

**For brain scanning, Pertscan-99m provides more information with less radiation to the patient than any other related cerebral test — whether other radioisotopes or x-rays.**

**SPEED:** Gives each projection fast — 15 minutes or less with rectilinear scanners, 2 to 4 minutes with a camera.

**CONVENIENCE:** Supplied in a ready-to-use single dose vial.

**SAFETY:** Carrier-free, non-pyrogenic, sterile, and isotonic.

**FLEXIBILITY:** Oral or intravenous administration in two sizes: 10 millicuries in 4 ml. and 15 millicuries in 6 ml.

**SHIPMENTS:** Monday through Friday—and Sunday . . . allows scheduling of brain scans 6 days a week—Monday through Saturday.

**INDICATIONS:** Adjunctive diagnostic aid in detecting and localizing intracranial neoplastic (primary or metastatic) and non-neoplastic lesions.

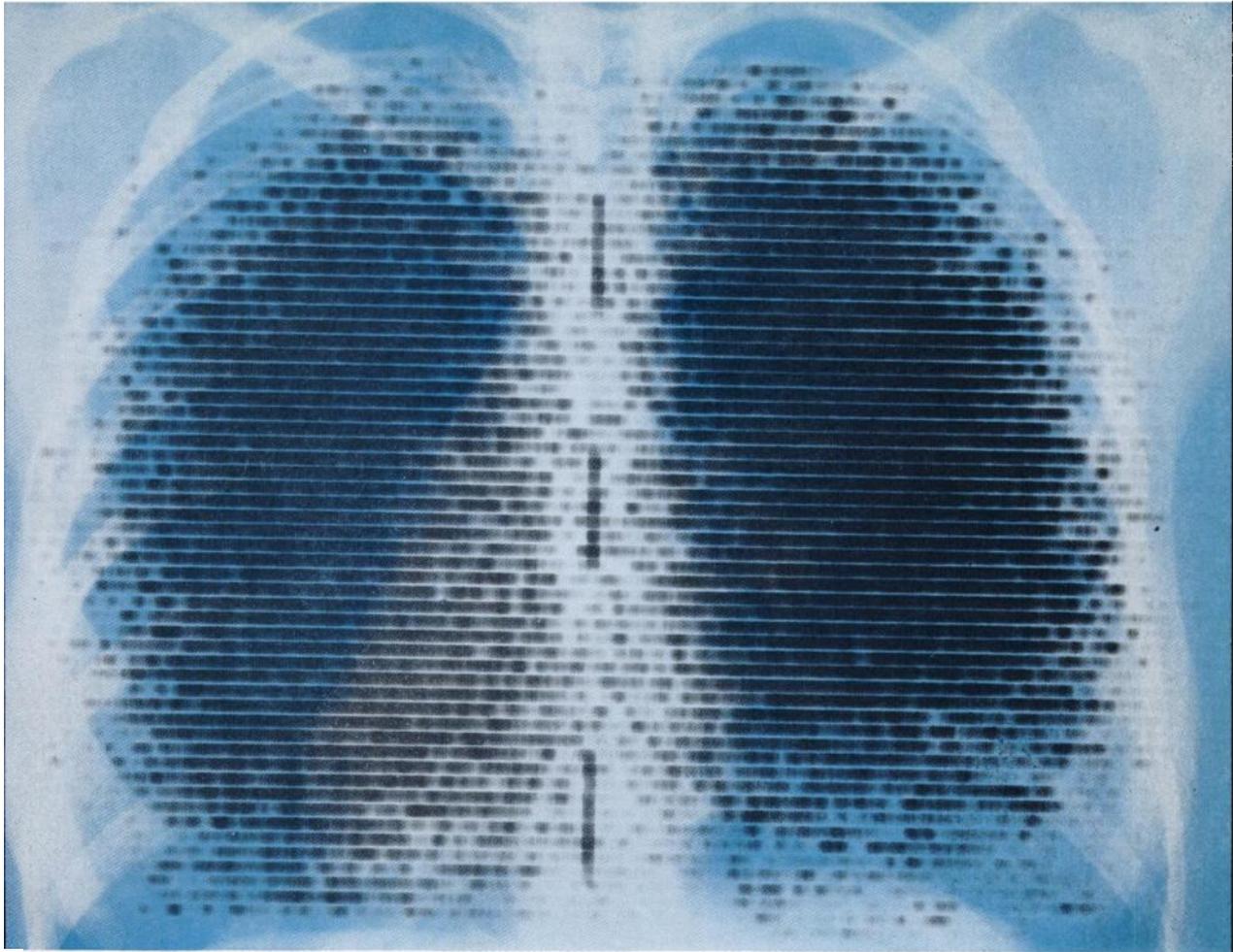
**CONTRAINDICATION:** Radio-pharmaceutical agents should not be administered to pregnant women or to persons less than 18 years old unless the indications are very exceptional.

**PRECAUTIONS:** Care should be taken to ensure minimum radiation exposure to the patient as well as all personnel; to prevent extracranial contamination because this can lead to erroneous interpretation; and to differentiate areas of abnormal activity from areas of normal vascular activity.

704391



TM-TRADEMARK



**Abbott announces**  
**Macroscan™-131**  
AGGREGATED RADIO-IODINATED ( $^{131}$ ) ALBUMIN (HUMAN)

**If it's a pulmonary problem,  
Macroscan-131 pictures it!**

**Pulmonary embolism, suspected:** To confirm (or rule out) its occurrence.

**Chronic pulmonary tuberculosis:** To estimate unilateral and regional function and perfusion of the lungs.

**Emphysema:** To evaluate the degree of focal lack of perfusion.

**Pneumonitis:** To evaluate the decreased regional blood flow that occurs without obstruction of vessels.

**Lung tumors:** To evaluate the regional is-

chemia resulting from compression or obstructing of pulmonary arteries.

**Surgery and/or other therapy for lung disorders:** To evaluate the effectiveness of therapeutic measures.

Macroscan-131 is sterile and non-pyrogenic. It is ready to use and should not be heated prior to use.

**INDICATIONS:** For scintillation scanning of the lungs to evaluate total, unilateral, and regional arterial perfusion of the lungs.

**CONTRAINDICATION:** Radio-pharmaceutical agents should not be administered to pregnant women, nursing mothers, or to persons less than 18 years old unless the indications are very exceptional.

**PRECAUTIONS, SIDE EFFECTS:** Care should be taken to administer the minimum dose consistent with safety and validity of data. The possibility of an immunological response to albumin should be kept in mind when serial scans are performed. There is a theoretical hazard in acute cor pulmonale, because of the temporary small additional mechanical impediment to pulmonary blood flow. A possible case of urticaria has been related to a similar preparation. The thyroid gland should be protected by prophylactic administration of concentrated iodide solution.



# 4 of every 5 new Departments of Nuclear Medicine get started with a Magnascanner®

(What does this suggest to you?)

This fact hopefully suggests — to those contemplating the start (or expansion) of such a service — something about this instrument and the organization behind it. Other compelling points: the Magnascanner is far and away the instrument most widely used for diagnostic purposes by new or established Nuclear Medicine Departments; nearly 2000 hospitals are now serviced by Picker Nuclear. (Most Radioisotope Departments start with us and seem to stay with us.)

More. In less than 10 years the Magnascanner has become the keystone instrument in most Departments of Nuclear Medicine. This was the instrument that helped Nuclear Medicine specialists develop radioisotope diagnosis from a limited research technique to a practical, valuable, everyday, reliable, routine methodology. And in this rapidly-changing decade, the instrument changed too: multiple improvements and options were (and are always being) incorporated, making this the most up-to-date scanner available. Simultaneously, our line of other instruments for Nuclear Medicine expanded to the point of being the widest around. Nevertheless, nothing *anyone* has been able to do in this area (ourselves or others) has served to dislodge the Magnascanner from its keystone position in most Radioisotope Departments.

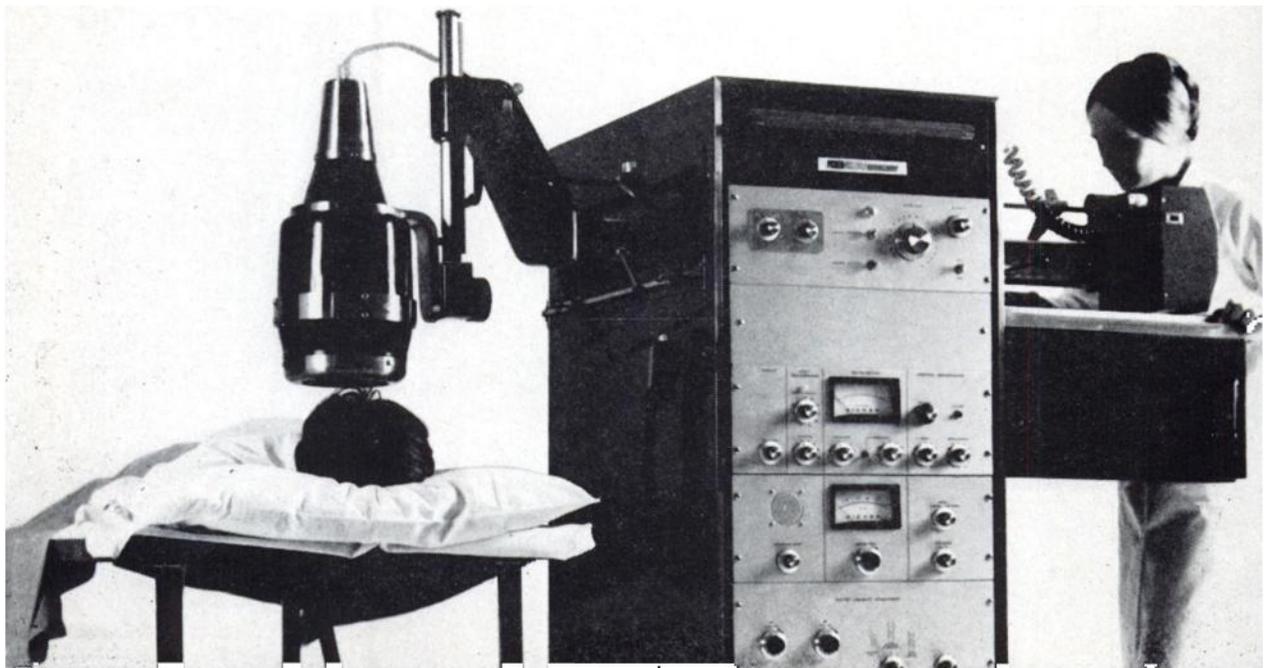
Now more about the new Magnascanner's versatility. Every new Magnascanner has both automatic and manual modes of operation—the new automatic mode speeds and simplifies set-up and self-checks the entire photo-recording system prior to the scan. And this is the *only* scanner that supplements the usual black and white data presentation with "colorscanning" (both photo and dot) which provides semi-quantitative radioisotope distribution pictures. The Magnascanner also offers: the widest choice of collimators, an ability to upgrade (easily) from a 3" detector system well suited to the needs of the beginning program to a faster 5" system, exclusive subtraction and two-color scanning, and dual-detector scanning.

A few final words about our obligations to you. We accept the premise that our obligations don't end at time of delivery. We not only install the instrument and show you how to use it, but we feel it our obligation to help train personnel when an institution new to this field doesn't have experienced personnel on staff. We have *other* obligations to you which our people are happy to detail. But meanwhile, consider further the choice of the Magnascanner (and the Picker commitment to you) as the keystone of *your* service too by requesting our new brochure number 130N.

PC67-130

Picker Nuclear, 1275 Mamaroneck Avenue, White Plains, N. Y. 10605

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# SQUIBB

a research concept in radiodiagnostics

## Some significant advances in thyroid-testing technique

In the continuing research for superior thyroid function tests, the *in vitro* Tresitope procedure represents important refinements in safety and simplicity—with longer shelf life of test material.



The Tresitope Diagnostic Kit offers significant refinements in the performance of the resin uptake test for thyroid function. First, it employs  $I^{125}$  which permits a much longer shelf life of test materials than  $I^{131}$  and also lowers radiation exposure to the technician. Second, the kit is completely self-contained—no other equipment is required. And, as an *in vitro* test, it avoids exposing patients to any ionizing radiation, and the results are unaffected by the prior administration of most iodine-containing preparations. Furthermore, the technique is simple enough so that the test can be run in any hospital or office laboratory with suitable isotope facilities, and the amount of radioactivity is sufficiently small so that no AEC licensing is necessary, provided that not more than 100 vials of Liothyronine  $I^{125}$  Buffer Solution are on hand at any one time.

The technical difficulties encountered in preparing different batches of resin sponges are avoided.

Moreover, because it is an *in vitro* test, it is diagnostically significant in the presence of unrelated nonthyroidal factors that are known to complicate interpretation of other test findings. More specifically, the test is unaffected by anxiety, hypertension, congestive heart failure, or administration of mercurial agents. And it is unaffected by prior administration of most iodine-containing preparations that can completely nullify the results of other thyroid function tests for considerable periods.

### $I^{125}$ versus $I^{131}$

The use of  $I^{125}$  rather than  $I^{131}$  to label the liothyronine employed in the test is also advantageous. Employing  $I^{125}$  considerably lengthens the shelf life of the liothyronine because  $I^{125}$  has a longer half-life and also because it emits no beta rays to affect the stability of liothyronine. The half-life of  $I^{125}$  is considered to be 60 days while  $I^{131}$  has a half-life span of approximately 8 days. Other advantages of  $I^{125}$ -labeled material include lowered radiation exposure to the technician, yet radioactivity is well within good counting range of modern standard equipment and *in vitro* counting is quite efficient.

### convenient, safe, and practical

The Tresitope Diagnostic Kit was specifically designed so that the test procedure is simplified and the possibility of radioactive contamination of the laboratory is minimized. The kit contains 10 capped vials, each containing Liothyronine  $I^{125}$  Buffer Solution (activity does not exceed 0.1 microcurie per vial), 10 plastic tubes of resin powder, and 10 separate droppers to avoid cross-contamination. The polystyrene carrier is also a test-tube rack, and it has been modified to facilitate washing of the resin powder. The reverse side of the package insert becomes the record sheet for test results.

**NOTE:** While the resin uptake test is a very useful aid in the evaluation of thyroid function, it should not be used as the sole basis for such an evaluation. In any patient, the clinical state is probably the best indication of thyroid status, and *any* laboratory test must be interpreted with caution when test results do not agree with clinical evidence.

### Precautions

Use appropriate radiation precautions in handling, identifying and discarding all radioactive material. Remember that minute amounts of radioactivity remain on components used in the test, including the polystyrene platform when it is used in performing the test, and particularly when the Tresitope Suction Method is used for a number of tests.

## Tresitope® Diagnostic Kit

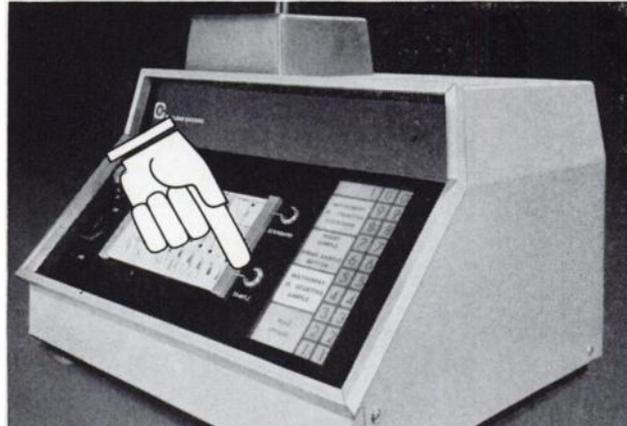
Squibb Resin Uptake Kit with  
Liothyronine  $I^{125}$  Buffer Solution

**SQUIBB** 'The Priceless Ingredient' of every product  
is the honor and integrity of its maker.

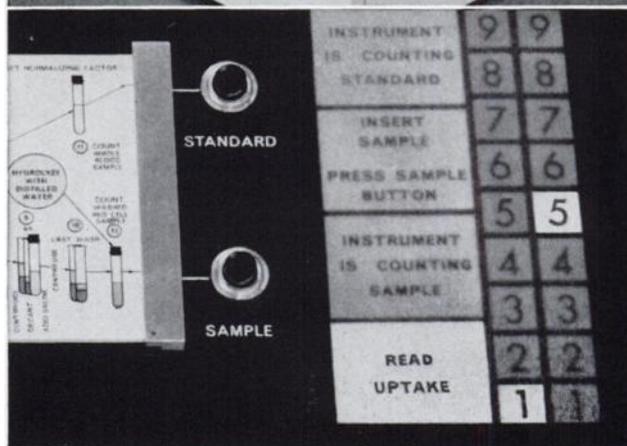
**Insert a  
sample.**



**Press a  
button.**



**Read the  
answer.**



## **The Mediac\*<sup>T3</sup> Counter**

**For in-vitro screening tests to determine  
the amount of circulating thyroid hormone.**

Can be used with all \*T3 tests and kits. Digital display gives direct readout of thyroid uptake in per cent. Simple, two-button operation, with lighted indication of operating mode. Step-by-step procedure shown on front-panel-mounted cards. Only one standard count required for unlimited number of sample counts. Switch-selectable normalizing factor. Complete with diagnostic procedures, operating manual and sample report forms.

*Ask for Mediac \*T3 Counter Brochure.*



Operating Nuclear-Chicago's new Mediac counting instruments is simplicity itself.

You can run a sample or a series of samples quickly—with all the accuracy and reproducibility you could ask for. And Mediac instruments are dependable and built to last.

Of course, Nuclear-Chicago service is everywhere you are—nation-wide and world-wide. That's worth knowing, isn't it?

To find out more about the Mediac \*T3 Counter or the Mediac Dose Calibrator or both, just write us and ask for the brochures. Or consult your local Nuclear-Chicago sales engineer.

7-68

## The Mediac® Dose Calibrator

**For routine calibration of radioactive aliquots prior to administration.**

Direct digital readout, in microcuries or millicuries, as indicated on lighted display. Wide range of sensitivity, from 0.05 microcurie (background) to 99.9 millicuries (999 millicuries for technetium-99m). Calibrates radioisotopes with gamma-ray energies as low as 75 Kev. Accommodates standard vials and syringes. Complete with vial and syringe holders, operating manual, and remote manipulator.

*Ask for Mediac Dose Calibrator Brochure.*

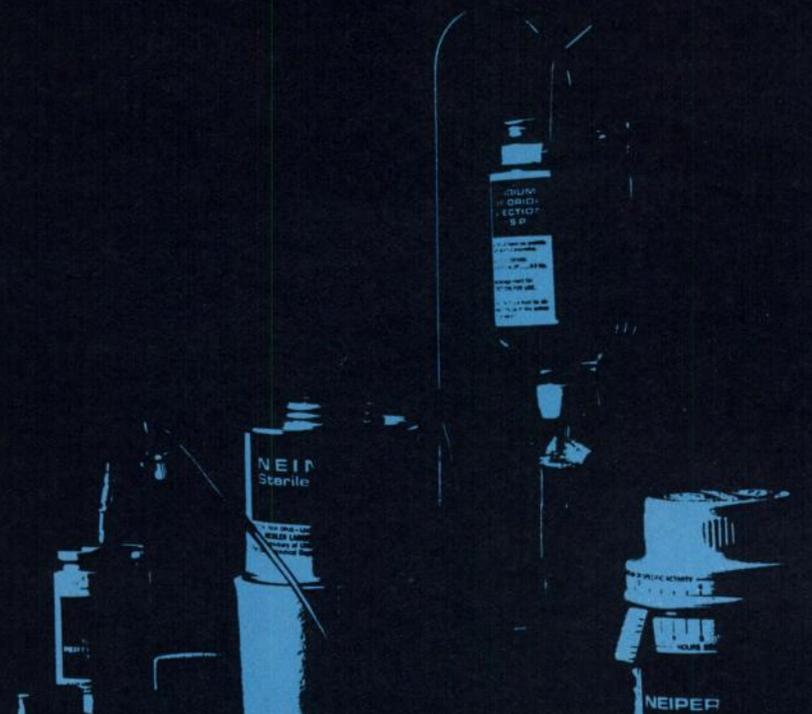


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do you  
prefer your  
 $99\text{mTc}$   
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now from Neisler...

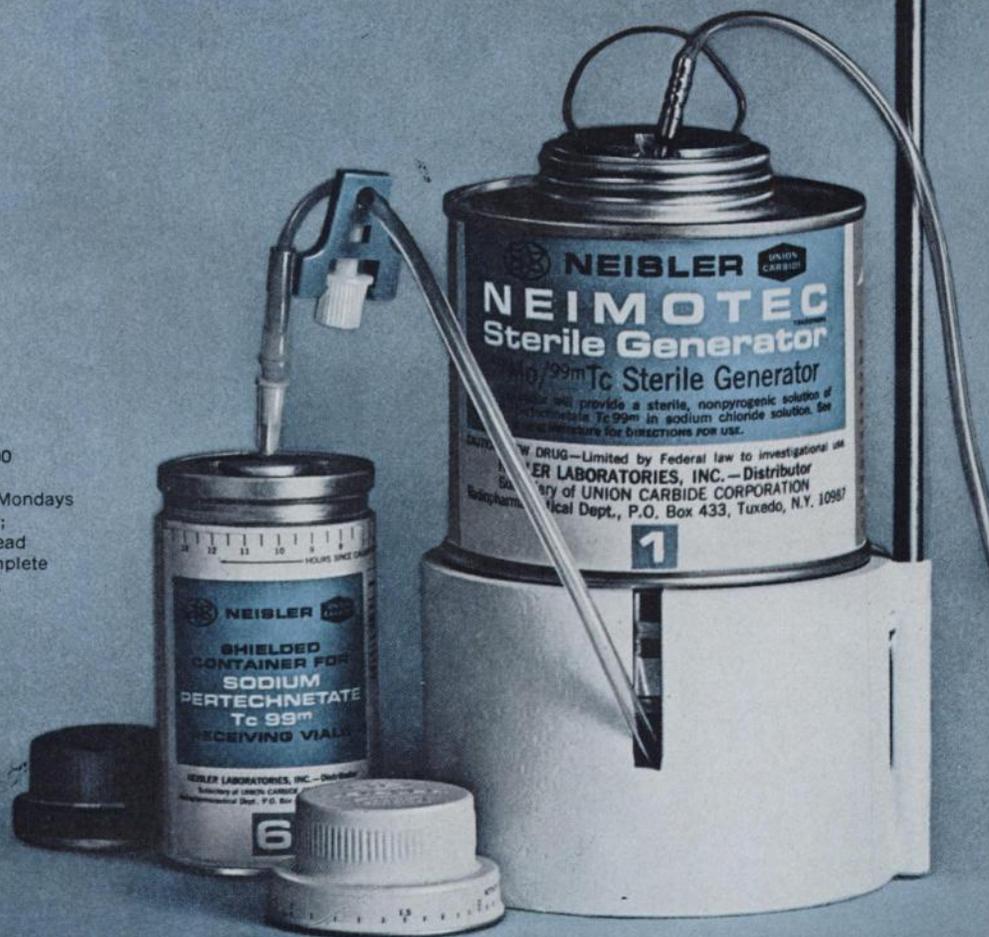
**STERILE, PYROGEN-FREE  
SODIUM PERTECHNETATE Tc 99<sup>m</sup>  
AS YOU NEED IT,  
ALL WEEK LONG**

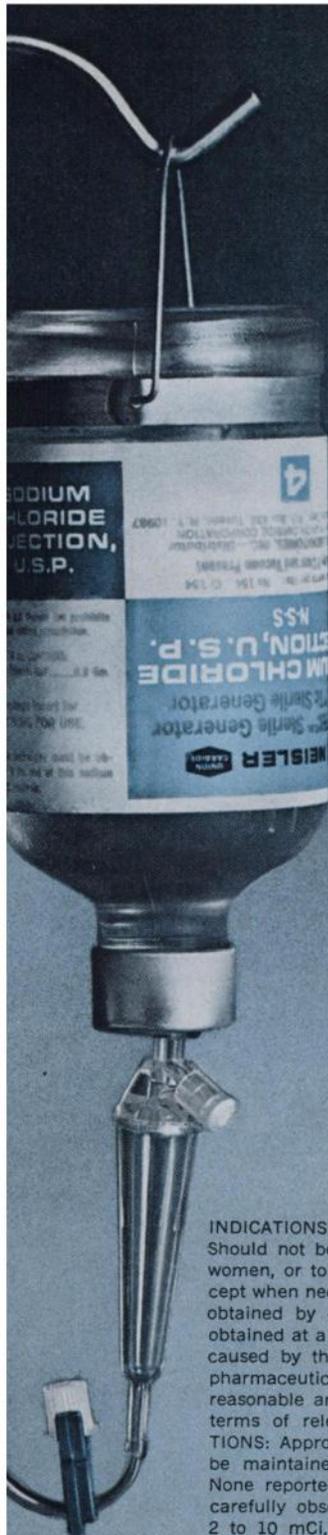
## **NEIMOTEC<sup>®</sup> Sterile Generator** 99Mo/99mTc Sterile Generator

### **FAST... EASY... ECONOMICAL**

- simple vacuum elution system for maximum dependability
- entire system sterile...one-time entry to easily accessible septa
- high-yield...high chemical purity
- multiple daily elutions possible

SUPPLIED: 100, 200  
or 300 mCi at noon,  
New York time, on Mondays  
following shipment;  
in nonreturnable lead  
container, with complete  
eluting accessories.





## PRECALIBRATED READY-TO-USE

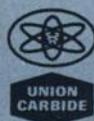
### NEIPERTEC™ 99<sup>m</sup>

sodium pertechnetate Tc 99<sup>m</sup>

**INDICATIONS:** Brain scanning. **CONTRAINDICATIONS:** Should not be administered to pregnant or lactating women, or to patients under the age of 18 years, except when necessary diagnostic information cannot be obtained by other types of studies or can only be obtained at a risk greater than the radiation exposure caused by this drug. **WARNINGS:** As with all radiopharmaceuticals, dose should be limited to smallest reasonable amount consistent with greatest value in terms of relevant diagnostic information. **PRECAUTIONS:** Approved radiation safety precautions should be maintained at all times. **ADVERSE REACTIONS:** None reported to date; however, patients should be carefully observed. **DOSAGE AND ADMINISTRATION:** 2 to 10 mCi, administered by intravenous injection.

*Physicians should consult product package insert before administering.*

**SUPPLIED:** In lead-shielded vials in convenient COMPUTERCAPT™ packaging; 10 or 15 mCi at the time of calibration.



**NEISLER LABORATORIES, INC.**

Subsidiary of  
UNION CARBIDE CORPORATION  
Radiopharmaceutical Dept.  
P.O. Box 433, Tuxedo, New York 10987



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- High precision at low and high dose (±20% at 10 mrad; ±5% above 1 rad).
- Unaffected by environmental conditions.

Now, precise dose measurement is possible even when a variety of sources is used. TLD all but rules out the possibility of false or ambiguous results — and offers long-term dose retention PLUS insensitivity to environment.

You deserve the best in protection, from the one commercial service that provides advanced technology in personnel dosimetry: TLD service by Tracerlab.

Write for the new TLD Service brochure



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December, 1967

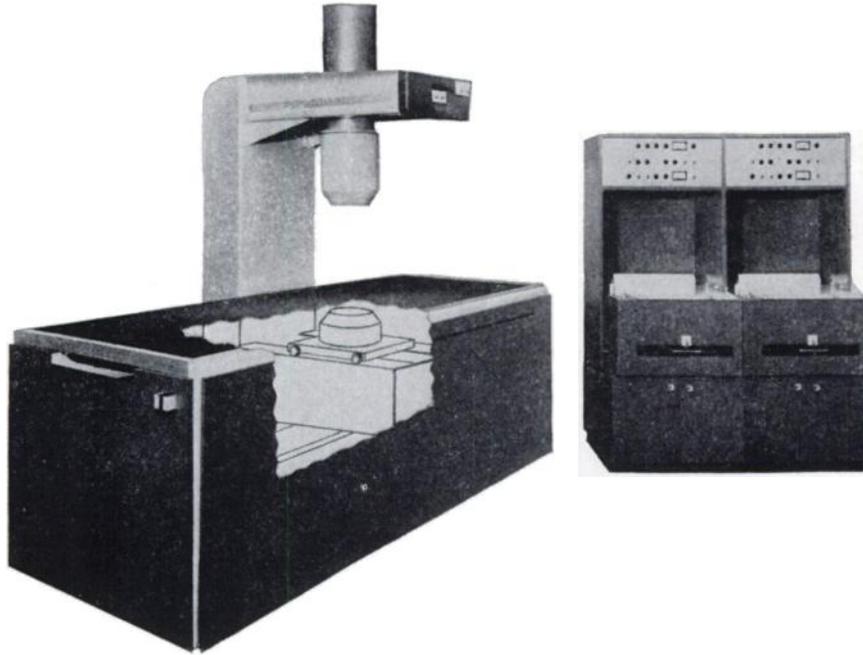
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# RADIOISOTOPE SCANNER

## MODEL 54-FD

### DUAL, OPPOSED, 5-INCH CRYSTALS



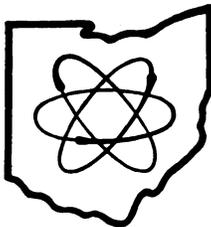
The demonstrable advantages of a dual 5-inch crystal scanner should be investigated by all those with a high clinical load who desire high resolution, rapid scans of both large and small organs or of the whole body.

The two scanning heads, exactly opposite each other, have separate, and complete electronics and print-out so that the data collected by each crystal may be used separately, in coincidence, or additively.

Mechanical and electronic specifications are the same as for our other large-crystal radioisotope scanners Models 54F and 54H:

Scanning speeds continuously variable to 200 inches per minute (500 cm/min.); adequate shielding even for high energy gamma emitters (up to 3 inches lead and 1 inch steel); high resolution crystals (9 per cent or better); accurate, reproducible scanning speeds and line spacing; no scalloping at any speeds; low background crystals (2 inch thick pure NaI light pipe); Gamma-graphic (patent pending) or slit mask photoscans; unequivocal one year warranty anywhere in USA or Canada.

This unparalleled radioisotope scanner is priced at \$28,750 with delivery in 90 days guaranteed.



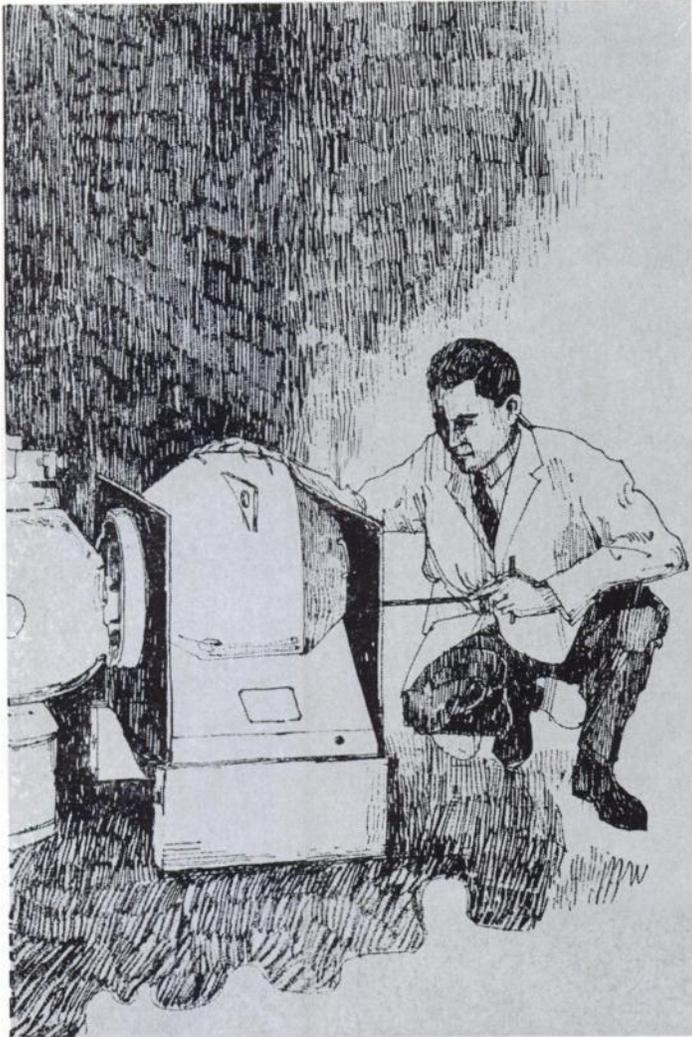
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CLEVELAND, OHIO

216 - 621-8477

# Cobalt-60 Teletherapy Reloads



Most people remember us as "The Source With Integrity." Today U.S. Nuclear Cobalt-60 Teletherapy Reloads... in 1.5 cm, 1.75 cm, 2.0 cm and 2.5 cm diameters... are available for prompt shipment.

We guarantee source outputs (calibration traceable to the National Bureau of Standards), doubly encapsulated in stainless steel, heliarc-welded capsules. In addition we make a normal check-out of your teletherapy equipment.

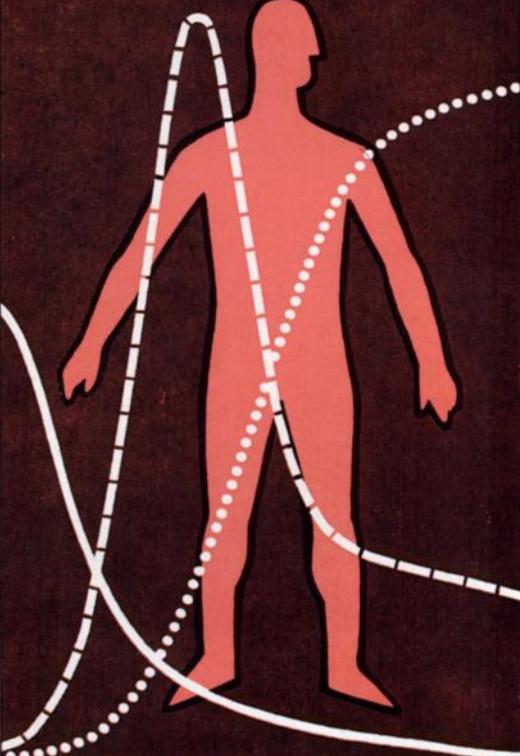
When you call us collect you'll make our conversation memorable by supplying the following facts. First, tell us the make and model of your teletherapy unit. Then give us the RHM output of your present source and capsule diameter in centimeters. Finally, let us know the RHM output and capsule size of the source you would like to order. This information lets us quote you a price as easy to remember as our name.

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THE SOURCE WITH INTEGRITY

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<p><b>XENON-133 IN A CONVENIENT, PRACTICAL FORM</b></p>  <p><b>XENEISOL 133</b> TRADEMARK</p> <p>(XENON 133 Solution) CAUTION: NEW DRUG—Limited by Federal Law to investigational use. See accompanying literature for DIRECTIONS FOR USE. Replace this cartridge in outer container when not in use.</p> <p>NEISLER LABORATORIES, INC.—Distributor Subsidiary of UNION CARBIDE CORPORATION Radiopharmaceutical Dept. P.O. Box 433, Tuxedo, New York 10987</p>	<p><b>FOR INVESTIGATIONAL DYNAMIC FLOW STUDIES</b></p> 
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**XENEISOL<sup>T.M.</sup> 133**  
(XENON-133 IN SODIUM CHLORIDE FOR INJECTION)

- ALL OF THE GAS IN SOLUTION—**  
No gas phase in the cartridge, therefore no loss of <sup>133</sup>Xe into a gas space. Order the amount you need...know the dose you administer.
- REDUCED RADIATION RISK...  
CONVENIENT SHELF-LIFE—**  
Biological half-life of *15 minutes or less* assures minimal radiation exposure... physical half-life of 5.27 days affords practical storage and use time.
- READY FOR USE BY INJECTION—**  
Supplied as sterile, pyrogen-free solution—  
for investigational use only.

- UNIQUE COMPUTERCAP<sup>T.M.</sup> PACKAGING—**  
Automatic computation of activity and concentration at any time after calibration.

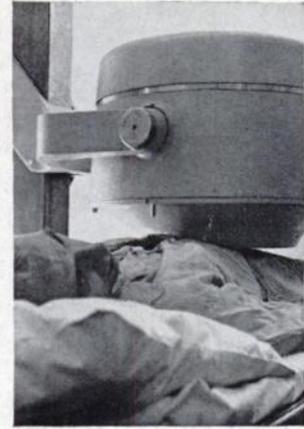
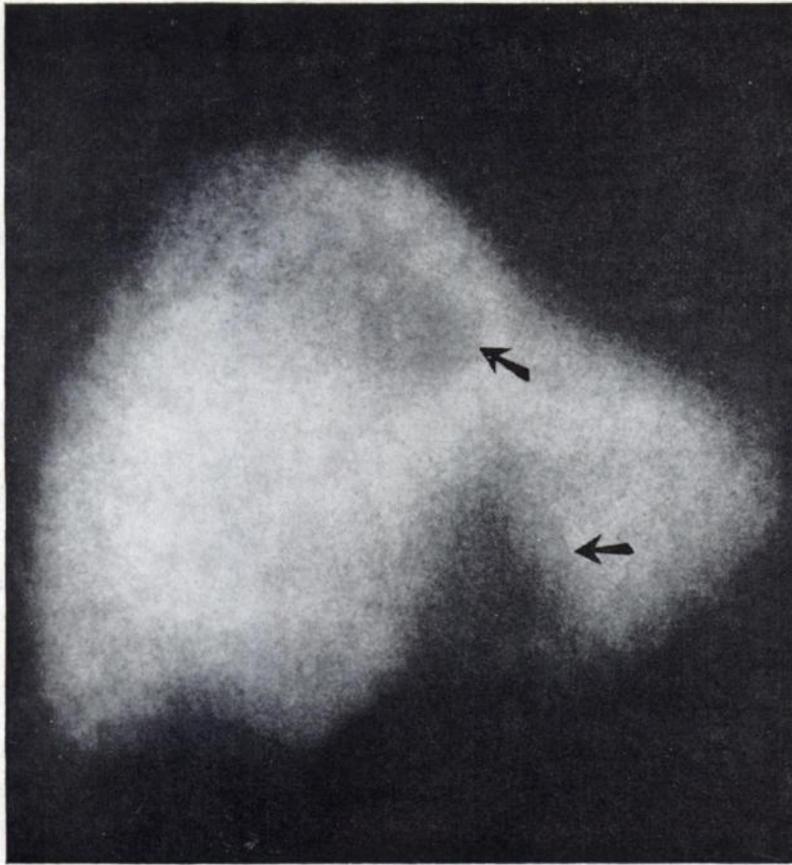
**PRECAUTIONS:** Approved radiation safety precautions should be maintained at all times. Do not administer to pregnant or lactating women, or to patients under the age of 18 years, except when necessary diagnostic information cannot be obtained by other types of studies or can only be obtained at a risk greater than that of the radiation exposure caused by this drug.

**SIDE EFFECTS:** None reported to date; however, care should be exercised in administration.

Comprehensive literature available on request.



**NEISLER LABORATORIES, INC.**  
Subsidiary of UNION CARBIDE CORPORATION  
Radiopharmaceutical Dept.  
P.O. Box 433, Tuxedo, New York 10987



**ORGAN:** Liver.  
**DOSE:** 3 millicuries technetium-99m sulfur-colloid.  
**VIEW:** Anterior.  
**EXPOSURE TIME:** One minute, started 15 minutes after injection.  
**DIAGNOSIS:** Metastatic deposits.  
 Taken with Pho/Gamma Scintillation Camera.

## Liver, abnormal.

Wouldn't you like to be able to locate lesions like these—before biopsy?

The picture shown above is a scintiphoto—a record of isotope distribution made by Nuclear-Chicago's Pho/Gamma® III Scintillation Camera. Consider the advantages of Pho/Gamma for your work.

First of all, Pho/Gamma's continuously sensitive view of all of the organ, all of the time, gives you high-speed, high-resolution isotope imaging. The benefits: Maximum patient comfort. Accommodation of heavy patient case loads. Minimal distortion from respiratory and other motions. True dynamic visualization of in-vivo processes by means of rapid-sequence, stop-motion scintiphotography.

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We've also made Pho/Gamma easy to operate. Its convenient desk console houses all electronics including twin oscilloscopes. You can simultaneously monitor and record the area of interest. The console also contains a dual scaler/timer and all controls for set-up and operation.

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