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 $^{131}$T3 test in terms of simplicity, convenience and elimination of errors characteristic of the erythrocyte procedure."

"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."

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

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.
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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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.

Now in your own laboratory... Sterile...

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

MALLINCKRODT/NUCLEAR
(formerly Nuclear Consultants—leading supplier
of a full line of radiopharmaceuticals.)

*new sterile, pyrogen-free TechneKow-CS Generator:
also supplied in dual purpose shipping shield
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 99mTc and checking for 99Mo 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.

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 Tc 99m 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 radiopharmaceutical.

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 rare, 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.

CONTRAINICATION: 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.
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 ischemia 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 “colorsanning” (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.

Picker Nuclear, 1275 Mamaroneck Avenue, White Plains, N.Y. 10605
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 $^{131}I$ which permits a much longer shelf life of test materials than $^{131}I$ 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 $^{131}I$ 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.

$^{131}I$ vs. $^{131}I$

The use of $^{131}I$ rather than $^{131}I$ to label the liothyronine employed in the test is also advantageous. Employing $^{131}I$ considerably lengthens the shelf life of the liothyronine because $^{131}I$ has a longer half-life and also because it emits no beta rays to affect the stability of liothyronine. The half-life of $^{131}I$ is considered to be 60 days while $^{131}I$ has a half-life span of approximately 8 days. Other advantages of $^{131}I$-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.

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 $^{131}I$ Buffer Solution

'SThe Priceless Ingredient' of every product is the honor and integrity of its maker.
Insert a sample.

Press a button.

Read the answer.

The Mediac* T3 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.

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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.

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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.

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The unique properties of Cobalt 60 Irradiation are now available to research laboratories and to industry anywhere in the world.

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FAST...EASY...ECONOMICAL
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- 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.
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.
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Now Tracerlab makes available to you the most advanced personnel dosimetry service of them all — TLD.

Now all users of radioactivity and radiation can benefit from the most accurate, most reliable report of doses available.

- Broadest range (10 mrad to 10⁵ rads).
- Energy independent to ±15% (20 KeV to 1.3 MeV range).
- 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.

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December, 1967

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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:

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- 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.

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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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**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.**

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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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Supplied as sterile, pyrogen-free solution—for investigational use only.

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

Comprehensive literature available on request.

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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.

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