Fluke Biomedical offers the following products for those centers planning to offer PET studies. The products selected have been specially selected to maximize radiation shielding because of the high energy radionuclides used in these studies.

**RADSAFE PET Syringe Shield**
The RADSAFE PET Syringe Shield offers 0.34 inch thick tungsten shielding to protect users from FDG. This is a proven design. Shielding you can trust.
- 56-003 RADSAFE PET Syringe Shield, 3 cc
- 56-005 RADSAFE PET Syringe Shield, 5 cc

**Dose Calibrator Reference Source**
Meets regulations for daily constancy checks over the calibrator’s range of measurement.
- 67-356 Calibrated $^{137}$Cs Source, 200 µCi

**CAL/RAD MARK VI**
Innovation abounds with this new dose calibrator featuring a touch-screen interface combined with Microsoft Windows XP. Automated dose-drawing calculates the correct future dose providing you and your patients with the confidence that the right dose will be delivered each and every time.
- 34-165 CAL/RAD MARK VI

**Forceps - 10 inch**
These stainless steel forceps are excellent for handling small items in the hot lab. Use the inverse square law to your advantage.
- 04-502 Forceps - 10 inch

**Radioisotope Shielded Work Station**
L-Block Lead Shield: 2 in (5 cm) thick, protects head and torso from radiation. Provides optimum work conditions when using $^{137}$Cs, $^{226}$Ra and PET nuclides.
- 67-752 Radioisotope Shielded Work Station

**PET Syringe Carrier, 0.25 inch lead**
This carrier provides a convenient, safe means of storing and transporting syringes or vials.
- 56-288-02 PET Syringe Carrier

**PET Sharps Shield, 1 inch lead**
A waste disposal system ideal for any location where injections are given.
- 67-340 PET Sharps Shield
- 67-888-1676 Kendall Plastic Container, pkg. of 40

**Lead-Lined Waste Container**
This rugged container safely holds radioactive waste awaiting disposal. It consists of a lead-lined inner container and an outer receptacle made entirely of stainless steel.
- 53-370 Lead-Lined Waste Container

**Victoreen® Advanced Survey and Count Rate Meter**
With the proper probe combination, this meter can be used as a general survey meter, an area monitor, a wipe test counter and a contamination monitor.
- ASM-990 Advanced Survey Meter

**GM Pancake Probe**
A hand-held, thin-window detector designed for alpha, beta, and gamma radiation measurements. It is designed for use in conjunction with the Victoreen ASM-990, standard GM survey meter.
- 489-110D GM Pancake Probe
- 489-200 Wipe Test Probe

**CAL/RAD Wiper™ Multi-Channel Analyzer Single-Well Wipe Test Counter**
The Wiper is a compact, highly sophisticated, 4096 channel analyzer specifically developed for wipe testing in a nuclear medicine setting.
- 05-500 CAL/RAD Wiper Wipe Test Counter

**Radiation Warning Materials**
Essential to every lab.
- 09-637 “Caution: Radioactive Materials,” steel sign (1)
- 09-647 “Caution: Radiation Area,” steel sign (1)
- 09-122 “Radioactive Material,” paper tape, roll, 180 ft (1)

**Rad-Con™ Decontaminants**
Foaming action rapidly “lifts” all types of radioactive contamination from work areas and skin.
- 03-301 Rad-Con Surface Cleaner
  For international orders, Radi-Clean™ Decontaminant will be provided.

For more information, receive our full product catalog, or order online, contact Radiation Management Services business of Fluke Biomedical: 440.248.9300 or www.flukebiomedical.com/rms.

Specifications are subject to change without notice.

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Fluke Biomedical has selected the following products and offers them as a complete package with great savings. See respective data sheets for details.

**ISO-SAFE Tungsten Syringe Shield**
The ISO-SAFE Tungsten Syringe Shield, with window, has been specifically designed to provide comfort, ease-of-use and optimum protection for its users.

56-333 ISO-SAFE Tungsten Syringe Shield, 3 cc
56-555 ISO-SAFE Tungsten Syringe Shield, 5 cc

**Cobalt-57 Flood Source**
For accreditation and regulation requirements as transmission sources.

67-297 Flood Source, 18.5 inch Ø, 5 mCi

**Standard Bar Phantom**
Four scintiphotos measure the following camera parameters: intrinsic resolution and collimator system spatial resolution.

76-818 Standard Bar Phantom

**Dose Calibrator Vial Source**
Meets regulations for daily constancy checks over the calibrator’s range of measurement.

67-356 Calibrated 137Cs Source, 200 µCi

**CAL/RAD MARK VI**
Innovation abounds with this new dose calibrator featuring a touch-screen interface combined with Microsoft® Windows XP®. Automated dose-drawing calculates the correct future dose providing you and your patients with the confidence that the right dose will be delivered each and every time.

34-165 CAL/RAD MARK VI

**Forceps - 10 inch**
These stainless steel forceps are excellent for handling small items in the hot lab. Use the inverse square law to your advantage.

04-502 Forceps - 10 inch

**Standard Table Shield**
The Standard Table Shield is designed for facilities receiving unit doses or preparing diagnostic radionuclides. The L-block is constructed of 0.33 inch lead shielding and features a 2 mm lead glass window.

56-630 Standard Table Shield

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**Shielded Syringe Carrier**
This carrier provides a convenient, safe means of storing and transporting syringes or vials.

56-288 Shielded Syringe Carrier

**Dual Container Sharps Shield**
A waste disposal system ideal for any location where injections are given.

67-360 Dual Container Sharps Shield

**Lead-Lined Waste Container**
This rugged container safely holds radioactive waste awaiting disposal. It consists of a lead-lined inner container and an outer receptacle made entirely of stainless steel.

53-370 Lead-Lined Waste Container

**Victoreen® Advanced Survey and Count Rate Meter**
With the proper probe combination, this meter can be used as a general survey meter, an area monitor, a wipe test counter and a contamination monitor.

ASM-990 Advanced Survey Meter

**GM Pancake Probe**
GM Pancake Probe is a hand-held, thin-window detector designed for alpha, beta, and gamma radiation measurements. It is designed for use in conjunction with the Victoreen Model 190, standard GM survey meter.

489-110D GM Pancake Probe
489-200 Wipe Test Probe

**CAL/RAD Wiper™ Multi-Channel Analyzer Single-Well Wipe Test Counter**
The Wiper is a compact, highly sophisticated, 4096 channel analyzer specifically developed for wipe testing in a nuclear medicine setting.

05-500 CAL/RAD Wiper Wipe Test Counter

**Radiation Warning Materials**
Essential to every lab.

09-637 “Caution: Radioactive Materials,” steel sign (1)
09-647 “Caution: Radiation Area,” steel sign (1)
09-122 “Radioactive Material,” paper tape, roll, 180 ft (1)

**Rad-Con™ Decontaminants**
Foaming action rapidly “lifts” all types of radioactive contamination from work areas and skin.

03-301 Rad-Con Surface Cleaner

For international orders, Radi-Clean™ Decontaminant will be provided.
Nuclear Medicine Sources
Model 67-100 to 67-369

• NIST traceable
• Verified for uniformity, they surpass requirements for establishing the proper uniformity response of SPECT cameras
• Configured and packaged to ensure easy handling and storage
• Sealed source designs are approved and listed with the US Nuclear Regulatory Commission-administered National Registry of Sealed Sources and Devices, and are registered with the US Food and Drug Administration’s Center for Devices and Radiological Health
• Every source over 100 µCi includes a leak test certificate

How to order radioactive sources

No regulated radioactive sources can be shipped without compliance with these requirements:

A photocopy of your NRC or Agreement State License must accompany orders for radioactive sources and must clearly indicate your authority to possess the source being ordered.

When you purchase a new Flood Source, you may request packaging and instructions for the proper disposal of your old Flood Source. This is a service that applies to Flood Sources packaged for delivery in the continental US only.

Introduction

Since 1966 Nuclear Associates has been dedicated to supplying the nuclear medicine marketplace with reliable, technologically-advanced quality control instruments and accessories.

As always, we stress the importance of a regular and thorough quality control program, for the benefit of both medical personnel and patients. Following a daily nuclear instrument calibration program results in improved data accuracy and optimizes results. It has been demonstrated that improved quality control results in images that contain the maximum diagnostic information. Quality control testing also makes compliance with regulatory requirements easier. The Nuclear Associates line of flood sources, calibrated well counter sources and marker sources can help you get the most from your quality control program.
Sealed sources

<table>
<thead>
<tr>
<th>Model</th>
<th>Config.</th>
<th>Cobalt-57 flood sources</th>
<th>Overall dimensions</th>
<th>Activity mCi</th>
<th>Activity MBq</th>
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<tbody>
<tr>
<td>67-243</td>
<td>Circular</td>
<td>14 in (35.6 cm)</td>
<td>16 in (40.6 cm)</td>
<td>5 mCi</td>
<td>185 MBq</td>
</tr>
<tr>
<td>67-295</td>
<td>Circular</td>
<td>14 in (35.6 cm)</td>
<td>16 in (40.6 cm)</td>
<td>10 mCi</td>
<td>370 MBq</td>
</tr>
<tr>
<td>67-297</td>
<td>Circular</td>
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<td>20.5 in (52 cm)</td>
<td>5 mCi</td>
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<tr>
<td>67-298</td>
<td>Circular</td>
<td>18.5 in (47 cm)</td>
<td>20.5 in (52 cm)</td>
<td>10 mCi</td>
<td>370 MBq</td>
</tr>
<tr>
<td>67-297-2350</td>
<td>Circular</td>
<td>20 in (50.8 cm)</td>
<td>22 in (55.9 cm)</td>
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</tr>
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<td>67-298-2350</td>
<td>Circular</td>
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<td>10 mCi</td>
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</tr>
<tr>
<td>67-291-2400</td>
<td>Circular</td>
<td>24 in (61 cm)</td>
<td>26 in (66 cm)</td>
<td>5 mCi</td>
<td>185 MBq</td>
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<td>Rectangular 17.50 x 12 in (44.5 x 30.5 cm)</td>
<td>19.50 in x 14 in (49.5 x 35.6 cm)</td>
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<td>67-277</td>
<td>Rectangular 17.50 x 12 in (44.5 x 30.5 cm)</td>
<td>19.50 in x 14 in (49.5 x 35.6 cm)</td>
<td>10 mCi</td>
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<td>67-277-1500</td>
<td>Rectangular 17.50 x 12 in (44.5 x 30.5 cm)</td>
<td>19.50 in x 14 in (49.5 x 35.6 cm)</td>
<td>15 mCi</td>
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<tr>
<td>67-277-2000</td>
<td>Rectangular 17.50 x 12 in (44.5 x 30.5 cm)</td>
<td>20 in x 16 in (50.8 x 40.6 cm)</td>
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<tr>
<td>67-278</td>
<td>Rectangular 18 x 14 in (45.7 x 35.6 cm)</td>
<td>20 x 16 in (50.8 x 40.6 cm)</td>
<td>10 mCi</td>
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<tr>
<td>67-279</td>
<td>Rectangular 22.24 x 16.73 in (56.6 x 42.5 cm)</td>
<td>25 in x 18 in (63.5 x 45.2 cm)</td>
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<td>67-299-5000</td>
<td>Rectangular 24 x 16.5 in (61.4 x 41.9 cm)</td>
<td>26 x 18.5 in (66.4 x 47 cm)</td>
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</tr>
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For more information, receive our full product catalog, or order online, contact Radiation Management Services business of Fluke Biomedical: 440.248.9300 or www.flukebiomedical.com/rms.

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67-100-ds rev 1  10 jun 05

9-3099  Universal flood source storage case with wheels

89-299-2400  Flood source storage case for 24 inch Ø source
Tech-Mark Reusable Shielded Marker
Model 67-631

* The only nuclear medicine marker with a shutter mechanism designed to interrupt radiation, thus protecting the patient and technologist

* Produces sharply defined images

* Allows easy marking of small patient structures

* Integral shielding protects both the diagnostician and the patient from unnecessary radiation exposure, before and after imaging

* Radiation source can be instantly and easily “interrupted” at any time

* Reduces department costs associated with radioactive materials and their disposal

* Cost-effectively priced; allows a facility or lab to have several markers for use with different nuclide studies

* Not limited to one energy or radionuclide

* Reusable and refillable; the marker doesn’t have to be replaced because of nuclide decay

Localized radioactive marker sources are frequently used to identify body structures, orient the image to the patient, and establish the size of lesions and other relevant features.

**Problem. . .**
Until now, a safe, effective marker source had not been available; other markers are not shielded and have constant radiation output. As a result, the technologist and the patient are exposed to the radiation source or nuclide, while the marker is positioned prior to imaging.

**Problem solved. . .**
The Tech-Mark Reusable Shielded Marker eliminates the hazards and inconvenience presented by other commercially available markers.

**How it works. . .**
The Tech-Mark Reusable Shielded Marker consists of an isotope chamber located in a small lead-shielded chamber that can hold up to 0.2 ml of radionuclide solution. When loaded with the radionuclide to be imaged, the shielded chamber effectively prevents the release of significant ionizing radiation. (The shielding is designed for energy less than 200 keV.) The bottom of the chamber contains a felt absorber to help prevent spillage.

To unshield the marker, simply squeeze the handle, thus aligning the shutter with the aperture. Upon release of the handle, the shutter automatically closes.

**Allows easy, cost-effective refilling. . .**
Because the marker does not have to be replaced due to nuclide decay, the activity in the chamber can be renewed by simply aspirating the contents before installing a new marker dose. Spillage from the shielded chamber is easily prevented by simply placing tape over the surface of the chamber aperture. The radioactive tracer in the marker can be replaced daily if $^{99m}$Tc is used in the marker.

For more information, receive our full product catalog, or order online, contact Radiation Management Services business of Fluke Biomedical: 440.248.9300 or www.flukebiomedical.com/rms.

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