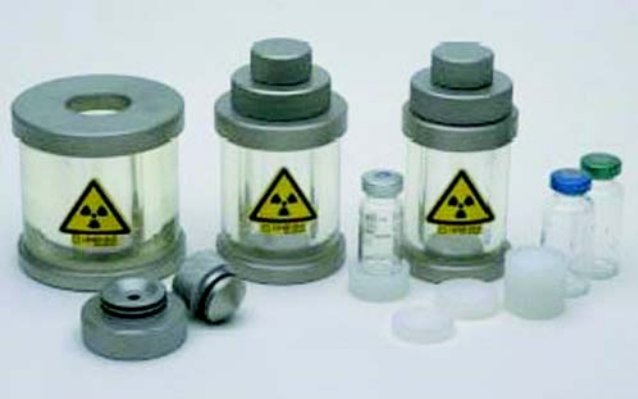
Nuclear Medicine NM

Leaded Glass Vial Shields

Models 56-419 to 56-421 Order online



The unique design of the Lemer Vial Shield offers maximum visibility and ease-of-use, while giving the optimum isotope storage with minimum exposure to the pharmacist and/or technologist. The specially designed double-top system permits insertion of the needle through a shielded inner top, making unnecessary exposure to the operator obsolete.

Various models available to accommodate elutions from different types of ^{99m}Tc generators.

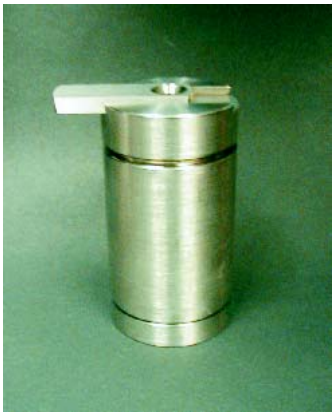
Specifications

- 360° leaded glass protection
- Upper and lower stainless steel protection
- Double-top system utilizes friction type O-rings
- Includes Plastic adapters to accommodate vials from 10 to 30 ml (5 pieces)

Example:

Low energy for 10 mCi ^{99m}Tc
Medium energy for 100 mCi ^{99m}Tc
High energy for more than 100 mCi ^{99m}Tc and less than 10 mCi ^{131}I

Model	Type	Height	ø Leaded glass	Weight
56-419	Low energy	4.33 in	51 mm	1 lb (0.45 kg)
56-420	Medium energy	4.33 in	61 mm	3.65 lb (1.66 kg)
56-421	High energy	4.33 in	80 mm	6.55 lb (3 kg)



Stainless Steel Vial Shield

Model 56-418 Order online

This stainless steel vial shield is ideally suited for nuclear medicine. It offers 0.25 inch of lead protection with an attached tungsten dovetail slide that allows the operator to access the vial.

The lead shielding material is encased in stainless steel. It features screw caps at the top and bottom for ease of use. It is as durable as tungsten but as affordable as lead.

The stainless steel and lead construction makes this vial shield virtually unbreakable.

Specifications

Shielding 0.25 inch lead; 0.19 inch tungsten dovetail
Exterior Stainless steel
Hardware Stainless steel
Color Brushed stainless

Height 3.44 in (8.74 cm)
Outside diameter 1.88 in (4.78 cm)
Inside diameter 1.09 in (2.77 cm)
Weight 2.55 lb (1.15 kg)
Available model(s)
56-418 Stainless Steel Vial Shield

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

Specifications are subject to change without notice.

 56-419-ds rev 1 12 mar 03

CardinalHealth

The EluTer Elution Vial Shield for Bristol Myers Squibb TechneLite® Generator

Model 56-302

Order online

NM Nuclear Medicine

Solid tungsten vial shield designed to shield multi-curie elutions. The tough tungsten will retain its shape under the roughest handling and is virtually unbreakable. For use with the Bristol Myers Squibb TechneLite Generator. Magnetic cap keeps the lid on even when inverted.

Specifications

Weight 3.97 lb (1.8 kg)

Optional accessories

- **EluTer Shield Ring** (Model 52-712)
- **EluTer Top** (Model 52-714)
- **EluTer Bottom** (Model 52-715)

Available model(s)

56-302 The EluTer Elution Vial Shield for Bristol Myers Squibb TechneLite Generator

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Hamilton Vial Heating Shield

Model 53-801

Order online

Made from Tungsten, this Vial Heating Shield holds vials the size of 2.65 cm in width. Fits within standard aluminum heat blocks. Easy button top and vial cut to lift vials with the use of forceps.

Specifications

Weight 1.1 lb (0.5 kg)

Available model(s)

53-801 Hamilton Vial Heating Shield

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

Specifications are subject to change without notice.

TechneLite is a registered trademark of E.I. Du Pont de Nemours and Company.

56-302-ds rev 1 12 mar 03

Nuclear Medicine NM

NeRD®
Needle Recapping Device
Model 67-605 Order online

- Small size makes it easily transportable and it won't clutter the work area
- Made of solid rubber with a highly visible color, it is easily cleaned and decontaminated
- Autoclavable

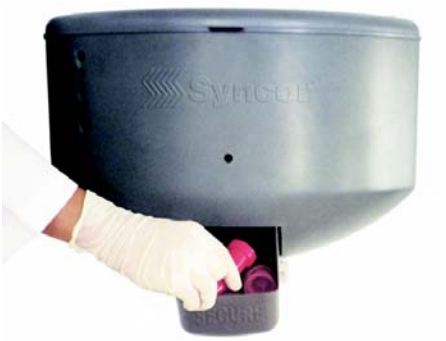
This innovative needle recapping device facilitates OSHA compliant one-handed needle recapping. The suction cup base provides stable positioning and it accepts most needle brands, sizes and gauges.

Specifications

Dimensions
Hole top 0.325 in Ø (0.825 cm)
Hole depth 0.865 in Ø (2.2 cm)
Construction Rubber

Weight 0.11 lb (0.05 kg)
Available model(s)
67-605 NeRD* Needle Recapping Device

* *US Patent Des. 425,197.*



SECURE® Bio Cap Dispenser
Model 52-725 Order online

You can never find the right Bio Cap when you need it. Now with the SECURE Bio Cap Dispenser it mounts on the wall right where you need it. It's made of a durable plastic and can hold up to long and/or short Bio Caps in one unit. No more need to look around; they are right on the wall.

Specifications

Dimensions 7 (w) x 19.75 (d) x 11 in (h) (17.8 x 50.2 x 28 cm)

Weight 2.9 lb (1.3 kg)
Available Model(s)
52-725 SECURE Bio Cap Dispenser

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

67-605-ds rev 1 12 mar 03

CardinalHealth

Nuclear Medicine NM

Gamma-Vue® Vial Shields for ^{99m}Tc-Sulfur Colloid Preparation*

Models 56-236 to 56-237 Order online

Vial shield (Model 56-236)

Vial shield (Model 56-237)

- Permit heating and drawing of ^{99m}Tc-Sulfur colloid preparations (and similar solutions) without radiation exposure to technologists
- Allows a ^{99m}Tc-sulfur colloid solution to be continuously shielded before, during and after colloid preparation

The unit consists of a lead cylinder and a lead-glass panel which provides the user with optimum shielding. The shielding is sufficient to reduce the radiation level for 25 mCi of ^{99m}Tc to near background. In this model, several opening vents in the lead wall allow boiling water to circulate freely around the vial, heating the solution rapidly and uniformly. The vents are located so as to minimize radiation leakage.

A carrying handle makes it easy for the shield to be lowered into and removed from the boiling water bath.

Available model(s)

56-236 Gamma-Vue Vial Shield. Has 0.25 inch lead walls; accepts containers up to 3.125 inch high x 1.5 inch OD; measures 3.875 inch high x 2 inch OD; weight is 3 lb (1.4 kg); includes handle

56-237 Gamma-Vue Vial Shield. Has 0.19 inch lead walls; accepts containers up to 2.75 inch high x 1.25 inch OD; measures 3.625 inch high x 1.625 inch OD; weight is 1.5 lb (0.7 kg); includes handle

* *US Patent No. 3,673,411.*

Piglet® Popper

Model 52-700-1240 Order online

- Stainless steel remote handling tool designed to remove and replace the snap-cap lid within the Piglet or Piglet$_2$†
- Reduces your exposure by keeping fingers clear while opening container, but allows the dose to remain completely shielded

† *US Patent 5,834,788.*

Weight 0.11 lb (0.05 kg)

Available model(s)

52-700-1240 Piglet Popper

Cardiolite® Booster Seat

Model 56-303 Order online

When placed inside the Vial Shield, this booster seat positions short Cardiolite vials in the proper position for easy dispensing.

Weight 0.08 lb (0.03 kg)

Available model(s)

56-303 Cardiolite Booster Seat

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

56-236-ds rev 1 12 mar 03

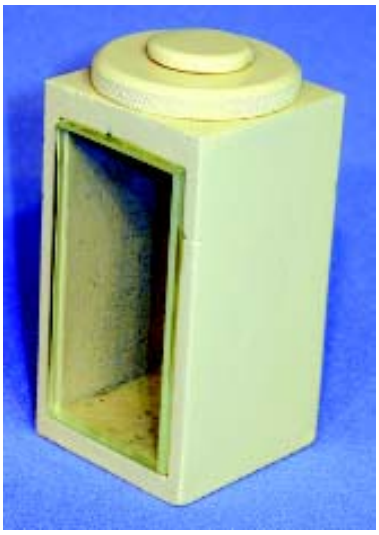
CardinalHealth

Order online

All-Vue™ Vial Shield and Cylindrical Vial Shields

Models 56-230 to 56-234

NM Nuclear Medicine

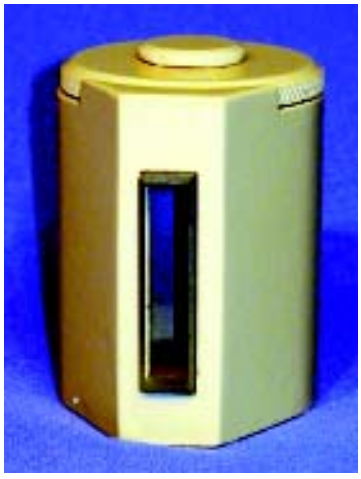


All-Vue Vial Shield, Model 56-230

Vial Shield in use with a syringe shield

- Designed for use with ^{99m}Tc and other low-energy gamma emitters
- Perfect for viewing, handling, and dispensing the radioactive contents of shielded vials without removal from their shielding
- Ideal for isotope generators. Milking and dispensing operations are fully visible without removing collection vial from shielded container

Cylindrical Vial Shields



Introduction

The All-Vue Vial Shield and Cylindrical Vial Shield ensure the greatest safety and convenience for personnel who must handle radionuclides in vials. Each consists of a lead container with a large lead-glass window for viewing the exact liquid level in the enclosed vial. An opening in the screw-on cover permits the insertion of a syringe for withdrawing the radionuclide.

Applications

Vial shields are ideal for use with isotope generators. The generator supplier's container is placed directly in the vial shield and milked in normal fashion. Though shielded, the contents of vials are observable at all times. Vial shields are also widely used for storing activity received from radioisotope suppliers. By transferring the vials from the supplier's opaque shield to a vial shield, the volume remaining in the original container can be seen at a glance.

Replacement lead glass windows

56-230-1000 All-Vue Vial Shield 0.25 inch, Replacement Lead Glass

56-232-1000 Cylindrical Vial Shield 0.25 inch, Replacement Lead Glass

56-234-1000 Cylindrical Vial Shield 0.5 inch, Replacement Lead Glass

Available model(s)

56-230 All-Vue Vial Shield. Has 0.25 inch lead walls; accepts vials up to 3.13 inch high x 1.5 inch deep; measures 4 inch high x 2 inch OD; weight is 2.25 lb (1 kg)

56-232 Cylindrical Vial Shield. Has 0.25 inch lead walls; accepts vials up to 3.13 inch high x 1.5 inch deep; measures 4 inch high x 2 inch OD; weight is 2.5 lb (1.1 kg)

56-234 Cylindrical Vial Shield. Has 0.5 inch lead walls; accepts vials up to 2.25 inch high x 1.5 inch deep; measures 3 inch high x 3 inch OD; weight is 5.5 lb (2.5 kg)

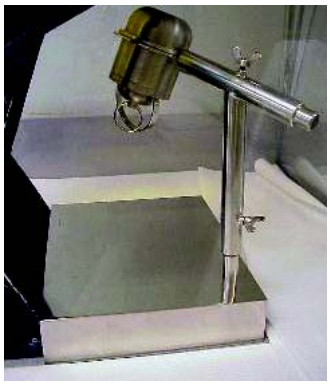
For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

56-230-ds rev 1 12 mar 03

Nuclear Medicine NM

Iodine Dispensing System*

Model 52-710 Order online



The Iodine Dispensing System permits dispensing of radioiodine without having to hold the pig. The 2.5 cm thick solid tungsten container holds a 10 ml vial and safely shields up to Curie quantities of iodine ^{131}I. With its tungsten "cork" magnetically held in place, it is designed to be held inverted in the dispensing station to permit safe compounding of iodine capsules or solutions. The stainless steel base provides shielding when standard lead bricks are in place. It's fully adjustable armature permits positioning to any height or angle.

System components (Model 52-710*)

Iodine Dispensing Pig* (Model 52-710-1090)

Iodine Syringe Shield 0.5 and 1 cc*
(Model 52-710-1100)

Base, Armature, and Ring*
(Model 52-710-1110)

* *US Patent 5,927,351.*

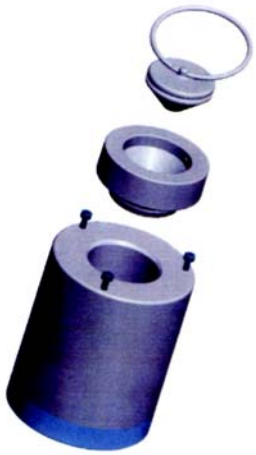
Multi-Product Dispensing Carousel

Model 52-713 Order online

This rotating carousel is designed to hold 6 tungsten vial shields with magnetic lids, permitting the easy withdrawal of patient doses. Once the morning technologist has made all of the required kits, anyone can select the proper product for each patient scan by simply spinning the carousel. Stainless steel base accommodates standard lead bricks. The vertical stainless steel pole has multilevel height adjustments. Accepts Tungsten Vial Shield (Model 56-301) or Tungsten Vial Shield with Swivel Lid (Model 56-238), (vial shields are not included).

Available model(s)

52-713 Multi-Product Dispensing Carousel



Deluxe Tungsten Vial Shield

Model 56-423 Order online

This unit is completely made of tungsten. It is designed to house 5 cc, 10 cc, 20 cc, and most 30 cc vials. It is perfectly suited for the temporary storing of 511 keV PET isotopes.

***Note**: Additional shielding may be desired when used with higher activity levels.*

The plug top can be easily removed, exposing the septum of the vial, to withdraw from the shielded vial. The entire top can also be simply removed to replace the vial when a new one is needed. This shield has a Delron plastic bottom for ease of movement along counter tops.

Specifications

Outside 3 in Ø x 3.7 in (h) (7.6 x 9.4 cm)

Wall thickness 0.75 in (1.9 cm)

Inside 1.5 in Ø x 2.9 in OD (3.8 x 7.4 cm)

Bottom thickness 0.77 in (2 cm)

Opening in top 1.45 inch with taper to 0.86 inch

Weight 13 lb (6 kg)

Available model(s)

56-423 Deluxe Tungsten Vial Shield

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

Specifications are subject to change without notice.

52-710-ds rev 1 12 mar 03

CardinalHealth

Leaded Glass Vial Shield Dispensing Station

Model 56-422 Order online

NM Nuclear Medicine

The LemerPax stainless steel wall stand is designed to receive the three lead glass vial shields (56-419, 56-420, 56-421) in order to eliminate the need for the technologist to hold the vial in their hand. The lower tray can hold small material such as syringe shields. The dispensing station will rotate the vial shields around a fixed axis to keep the vials upside down for syringe drawing. The unit can be attached to the wall, inside a glove box or fume hood or simply put on the top of a bench.

Specifications

Dimensions 5 (w) x 5.5 (d) x 15.7 in (h) (12.7 x 14 x 40 cm)

Weight 8.35 lb (3.8 kg)

Available model(s)

56-422 Leaded Glass Vial Shield Dispensing Station

PET Shipping Systems for Single Unit Doses or Vials

Model 54-720 & 54-745 Order online

These transportation systems are designed to transport Single Unit Dose Pigs (System U) or Vials containing up to 30 ml (System V) of PET radiopharmaceuticals. Each System allows transport as DOT Yellow II.

Specifications

Single Unit Dose System U

Unit Dose Pig 0.431 inch lead shielding, 8.3 lb (3.8 kg)

Unit Dose Pig dimensions 2.18 in Ø x 9.9 in, with screw-secure top

Unit Dose Pig Shipping Insert 0.437 inch lead shielding

Unit Dose Pig Shipping Insert dimensions 5.5 in Ø x 12.87 in, with locking top

Combined shielding for Shipping System U 0.8685 in

Weight 48.6 lb (22.4 kg)

PET Vial Shipping System V

Vial Pig 1.0 inch lead shielding, 19.9 lb (9.2 kg)

Vial Pig dimensions 6.07 in x 4 in Ø, with screw-secure top

Vial Pig Shipping Insert 0.55 inch lead shielding

Vial Pig Shipping Insert dimensions 15.5 in Ø x 12.87 in, with locking top

Combined shielding for Shipping System V 1.55 in

Weight 77.1 lb (35.5 kg)

Universal Shipping Container

Overall dimensions 13 x 13 x 19.5 in (33 x 33 x 49.5 cm)

Cubic feet 1.9 cu ft

Components sold separately

PET 30 ml Vial Pig (Model 54-714)

Shipping Insert for 30 ml Vial Pig (Model 54-747)

Shipping Insert for Unit Dose Pig (Model 54-722)

Universal Shipping Container (Model 54-744)

Available model(s)

54-720 PET Shipping System U, includes Unit Dose Pig, Shipping Insert for Unit Dose Pig, and Universal Shipping Container

54-745 PET Shipping System V, includes PET 30 ml Vial Pig, Shipping Insert for 30 ml Vial Pig, and Universal Shipping Container

See also, Tungsten FDG Transport Container (Model 56-430) and FDG Transport Trolley (Model 56-431).

For additional information, please contact Cardinal Health, Radiation Management Services customer service at 440.248.9300, 800.850.4608, or fax: 440.349.2307; located at 6045 Cochran Road, Cleveland, Ohio 44139-3303, USA.

Specifications are subject to change without notice.

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