

# Radiation Safety Consumables

Essentials for the laboratory environment



## Radiation Safety Essentials and Consumables

From radiation shields and scintillation cocktails to decontaminants and waste bins, LabLogic offer a comprehensive selection of products for working with radioactive elements within the laboratory environment.

Contamination Control .....	3 - 5
Scintillation Counting Accessories .....	6 - 7
Scintillation Cocktails .....	8 - 10
Shielding and Storage .....	11 - 16
Waste Disposal .....	17 - 19



## Instruments

LabLogic provide a range of radiation monitors which cover the whole spectrum of contamination and dose rate measurement requirements.

The company is also a leading provider of instruments and software for measurement and analysis of radioisotopes used in pharmaceutical, academic, nuclear medicine and research laboratories. Our systems include radiochromatography detectors and software for HPLC and TLC, liquid scintillation and gamma counters, radiation monitors, and microplate readers.

Monitors .....	20 - 21
Benchtop Counting / Microplate Readers .....	22
Radiochromatography .....	23



## Bind-It™



**Bind-It™ Decontamination Fluid is the safe and highly effective way to remove Tc99m, radioactive iodine and other common nuclear medicine isotopes.**

- Unique formula binds the isotopes and suspends them in solution so that they can be easily wiped away.
- Safe for use on delicate well counter detectors, thyroid probes, survey meters and gamma camera heads.
- Available as a concentrated cleaner, ready-to-use spray and a hand soap, all in convenient 237 ml and 946 ml sizes.

Order Code	Product	Quantity
CQ-LXX-01	Bind-It™ Concentrate Professional	237 ml
CQ-LXX-02	Bind-It™ Concentrate Professional	237 ml, 12 pack
CQ-LXX-03	Bind-It™ Ready-to-use Spray Professional	946 ml
CQ-LXX-04	Bind-It™ Ready-to-use Spray Professional (2 spray heads)	946 ml, 12 pack
CQ-LXX-05	Bind-It™ Hand Soap	237 ml
CQ-LXX-06	Bind-It™ Hand Soap	237 ml, 12 pack

## LabClean™



**A concentrated, economical and highly efficient solution for safe and fast removal of radioactivity from laboratory glassware, equipment and laboratory surfaces. It is also a superior general laboratory cleaner and degreaser.**

In normal use, LabClean is diluted 1:50 with water, and the glassware allowed to soak overnight and rinsed clean with distilled water. Faster decontamination can be achieved by increasing the concentration to 1:20 and elevating the temperature. Agitation will greatly accelerate the process. For surface contamination, such as lab benches and tops, LabClean should be used undiluted.

Biodegradable and mild to the skin when diluted 1:50, LabClean is not only more effective than chromic acid but is safer to use as well.

Order Code	Product	Quantity
SG-CXX-01	LabClean™	4.5 L
SG-CXX-02	LabClean™ (Supplied with spray-head)	1.1 L

## Labmat™



**Simplifies clean up and protects surfaces from stains and spills.**

- Highly absorbent top surface traps water, dyes, corrosive chemicals and radioactive solutions.
- Flexible polyethylene backing prevents solutions from soaking through.

Order Code	Product	Dimensions	Quantity
CR-EXX-15	Labmat™ Roll	508 mm x 15 m	
CR-EXX-16	Labmat™ Sheets	508 x 610 mm	100/pk

# Contamination Control

## LabWipes™

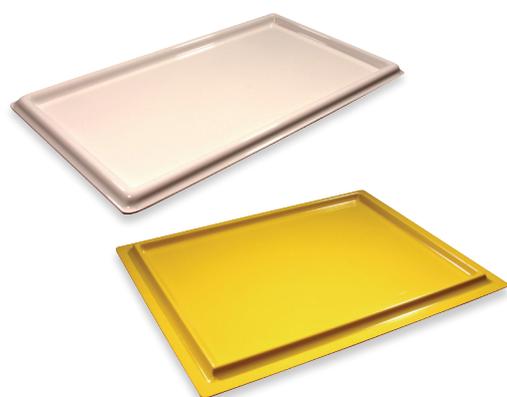


LabWipes™ eliminate the dependence of results on the direction of the filter paper and time.

Because LabWipes dissolve in scintillation fluid, there is no intact filter to absorb or attenuate beta emissions. Full 4π counting efficiency is achieved, giving reproducible results.

Order Code	Product	Quantity
CG-CXX-03	LabWipes™	100/pk

## Safety Trays and Liners



Spill trays provide a reusable work area with the added benefit of safe containment of spillages and lab bench protection.

- Three types available – general purpose, radiation and biohazard.
- All trays come complete with one free liner.
- Additional liners available in packs of 25.

Order Code	Product	Dimensions	Quantity
CC-EXX-04	Radiation Hazard Tray, Yellow	460 x 260 mm	
CC-EXX-05	Radiation Hazard Tray, Yellow	540 x 340 mm	
CC-EXX-06	Radiation Hazard Tray, Yellow	570 x 540 mm	
CC-EXX-07	Radiation Hazard Tray, Yellow	680 x 540 mm (for cabinet)	
CC-EXX-08	Radiation Hazard Tray, Yellow	700 x 460 mm	
CC-EXX-09	Liners	460 x 260 mm	25/pk
CC-EXX-10	Liners	540 x 340 mm	25/pk
CC-EXX-11	Liners	570 x 540 mm	25/pk
CC-EXX-12	Liners	680 x 540 mm (for cabinet)	25/pk
CC-EXX-13	Liners	700 x 460 mm	25/pk

## Stainless Steel Work Trays



Stainless steel trays confine radiologicals, hazardous chemicals, acids and other potential contaminants.

- For maximum protection trays can be lined with absorbent covering.
- Available in three convenient sizes.

Order Code	Product	Dimensions
CR-EXX-21	Stainless Steel Work Tray	380 x 270 x 19 mm
CR-EXX-22	Stainless Steel Work Tray	480 x 320 x 19 mm
CR-EXX-23	Stainless Steel Work Tray	540 x 420 x 22 mm

## Versi-Dry® Lab Soakers



Versi-Dry® Lab Soakers feature a highly durable blue top layer that remains intact even when wet. They absorb spills quickly and provide a soft thick cushion for fragile items.

- Each soaker is super absorbent up to 1050 ml/m<sup>2</sup>.
- Available on rolls or pre-cut sheets.

Order Code	Product	Dimensions	Quantity
CR-EXX-18	Versi-Dry® Roll	505 mm x 30 m	
CR-EXX-19	Versi-Dry® Sheets	455 x 505 mm	50/pk
CR-EXX-20	Versi-Dry® Sheets	455 x 1015 mm	25/pk

## Safety Assay Mat™



Made from rayon with a cellulose filler and water resistant polyethylene backing this large size mat provides ample room to organise all work materials.

- Highly absorbent surface reduces the spread of contaminated liquids.
- Warning tape can be used to hold mat in place.

Order Code	Product	Dimensions	Quantity
CR-EXX-17	Safety Assay Mat™	45 x 60 cm	50/pk

## FREE Samples

Free samples of scintillation cocktails, wipes and vials are available on request. Please contact our office.



# Scintillation Counting Accessories

## Bottle-top Reagent Dispenser



A precision quality bottle-top dispenser which attaches easily to all common reagent bottles with adapters supplied.

- Dispenses and reagent (except HF) with an accuracy of 0.7% and reproducibility of  $\leq 0.1\%$ .
- Constructed of chemical and heat resistant materials for trouble free performance and durability. Entire dispenser can be autoclaved at 121°C without disassembly.
- Positive locking selector allows precise dispensing over the entire volume range.
- Supplied complete with three bottle-top adaptors, discharge outlet and suction tube.

Order Code	Product
CR-DXX-10	Dispenser, 0 - 2.5 ml
CR-DXX-11	Dispenser, 1 - 5 ml
CR-DXX-12	Dispenser, 2 - 10 ml
CR-DXX-13	Dispenser, 5 - 25 ml
CR-DXX-14	Dispenser, 10 - 50 ml

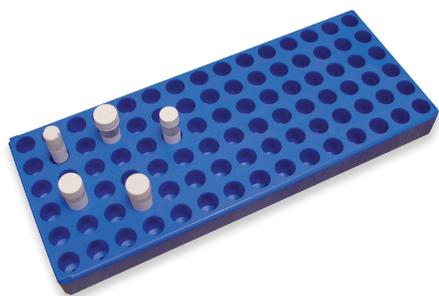
## ViaLogic Scintillation Vials



A range of low background glass vials, plastic vials and miniature vials for liquid scintillation counting applications.

Order Code	Product
CM-DXX-16	ViaLogic Glass Vials, 20 ml (HGH Reflection Caps)
CM-DXX-17	ViaLogic Glass Vials, 20 ml (Polycone Caps)
CM-DXX-18	ViaLogic Glass Vials, 8 ml (Poly Lined Caps)
CM-DXX-19	ViaLogic Plastic Vials, 20 ml
CM-DXX-20	ViaLogic Push On/Screw Off Small Vials, 7 ml
CM-DXX-21	ViaLogic PUSH Small Vials, 7 ml
CM-DXX-22	ViaLogic Triathler Gamma Vials, 7 ml
CM-DXX-23	ViaLogic Frosted Glass Vials, 7 ml
CM-DXX-24	ViaLogic Teflon Coated Plastic Vials, 20 ml

## Scintillation Vial Racks



Ideal for use when processing samples or transporting scintillation vials.

- Racks available to accommodate full size (20 ml) vials or miniature size (5 - 8 ml) vials.
- Heavy duty polypropylene trays have excellent chemical resistance and can be autoclaved.

Order Code	Product	Quantity
CR-EXX-02	Heavy Duty Polypropylene Trays, 20 ml x 50	2 trays/pk
CR-EXX-03	Heavy Duty Polypropylene Trays, 8 ml x 90	2 trays/pk

# Scintillation Counting Accessories

## Scintillation Vial Storage Containers



A versatile acrylic container which provides a convenient system for storing or transporting scintillation vials.

- Container holds one tray of scintillation vials (100 x 20 ml capacity) and can be stacked for maximum storage space.
- Removeable end panel allows vial tray to be easily inserted and removed.
- Constructed of clear acrylic that also provides beta radiation shielding.
- Can be stored in freezers at temperatures down to -70°C.

Order Code	Product	Dimensions
CR-DXX-15	Scintillation Vial Storage Container	336 x 336 x 82 mm

## Vial Trays and Partitions



These sturdy trays and partitions provide economical storage for 20 ml capacity glass or plastic vials.

- The corrugated tray assembles quickly without staples or tape.
- Smooth white surface promotes a clean looking exterior.
- Partitions have individual compartments that separate each vial.
- Accommodates 100 vials in a 10 x 10 configuration.

Order Code	Product	Dimensions	Quantity
CR-EXX-01	Cardboard Tray 100 Divisions 20 ml size vial	Tray: 336 x 336 x 82 mm Partition: 298 x 298 x 45 mm	10 trays and partitions/pk

## FREE Starter Pack

Receive a FREE consumables starter pack when you purchase a scintillation counter from LabLogic.



# Scintillation Cocktails

## FlowLogic U



An advanced, low viscosity, high uptake multi-purpose cocktail for flow applications.

- Accepts a wide range of HPLC gradients at 1:1 ratio, providing high counting efficiency (25%  $^3\text{H}$  efficiency at 1:1 cocktail/sample).
- Even difficult samples such as 0.1 N NaOH mix rapidly to yield a clear, non-viscous emulsion.

Order Code	Product	Quantity
SG-BXX-19	FlowLogic U	4 L
SG-BXX-05	FlowLogic U	4 x 4 L
SG-BXX-06	FlowLogic U	20 L Drum

## FlowLogic HA



A flow cocktail specifically designed for highly aqueous samples up to ratios of 2:1 scintillator to sample.

Order Code	Product	Quantity
SG-BXX-23	FlowLogic HA	4 L
SG-BXX-10	FlowLogic HA	4 x 4 L
SG-BXX-13	FlowLogic HA	20 L Drum

## FlowLogic HS



Ideal for use in on-line HPLC flow detectors as well as in traditional static counting.

- Formulated to accommodate high salt and buffer samples whilst still delivering a biodegradable scintillation cocktail with high efficiency.
- Low viscosity and non-gelling.

Order Code	Product	Quantity
SG-BXX-21	FlowLogic HS	4 L
SG-BXX-08	FlowLogic HS	4 x 4 L
SG-BXX-11	FlowLogic HS	20 L Drum

## FlowLogic SS



A non-gelling replacement for gel forming cocktails.

- Odourless and non-flammable, it accepts a wide range of concentrations and strengths. Providing the solution is clear it will be stable.
- Allows the dissolution of aqueous solutions to at least 2.5 ml per 10 ml without gels or thick liquids.

Order Code	Product	Quantity
SZ-BXX-06	FlowLogic SS	2 x 5 L

## SoFie Scint



An extremely low viscosity cocktail with a very high sample uptake capacity, making it ideal for use with the SoFie™ Stop-Flow System where extremely low levels of activity are being detected.

- Accepts a wide range of HPLC gradients at a 1:1 ratio, making samples less dilute and improving detection sensitivity.

Order Code	Product	Quantity
SG-BXX-20	SoFieScint	4 L
SG-BXX-07	SoFieScint	4 x 4 L
SG-BXX-17	SoFieScint	20 L Drum

## ScintLogic U



A multi-purpose scintillation cocktail which accepts a wide range of samples at a 1:1 ratio.

- Even difficult samples such as a 0.1N NaOH mix rapidly to yield a clear, non-viscous emulsion.
- Provides high counting efficiency (25% <sup>3</sup>H efficiency at 1:1 cocktail/sample).

Order Code	Product	Quantity
SG-BXX-24	ScintLogic U	4 L
SG-BXX-01	ScintLogic U	4 x 4 L
SG-BXX-14	ScintLogic U	20 L Drum

## ScintLogic E



Safe and non-flammable, it allows for the dissolution of aqueous solutions to at least 2.5 ml per 10 ml without gels or thick liquids.

- Accepts a wide range of concentrations and ionic strengths. Providing the solution is clear it will be stable.

Order Code	Product	Quantity
SZ-BXX-03	ScintLogic E	2 x 5 L

## ScintLogic HC



A safe scintillation cocktail for aqueous samples, it has a high counting efficiency for low to medium ionic strength aqueous solutions, including saline.

- Many biological solutions can be counted without pre-treatment, including albumin and serum.
- Sample uptake is up to 3 ml per 10 ml.
- Tissue solubilisers and other alkaline solutions will not cause chemiluminescence with ScintLogic HC.

Order Code	Product	Quantity
SZ-BXX-01	ScintLogic HC	2 x 5 L

# Scintillation Cocktails

## ScintLogic LW



The highest efficiency, low toxicity biodegradable scintillation cocktail available.

- Specifically designed to provide the maximum counting efficiency for aqueous sample volumes under 10% of the total liquid scintillation volume.
- Highly resistant to photoluminescence and chemiluminescence, which is very important when counting biological samples or acrylamide gel slices.

Order Code	Product	Quantity
SG-BXX-27	ScintLogic LW	4 L
SG-BXX-04	ScintLogic LW	4 x 4 L
SG-BXX-16	ScintLogic LW	20 L Drum

## ScintLogic MM



Offers high counting efficiency and high sample hold capacity.

- Stable over a wide temperature range it avoids false results due to sample separation in cooled counters.
- High sample uptake, 5 ml sample per 10 ml of cocktail, makes it the ideal choice for economical counting.

Order Code	Product	Quantity
SG-BXX-02	ScintLogic MM	2 x 5 L

## ScintLogic X



Designed for use with non-aqueous samples.

- Biodegradable, has a high flash point and low toxicity.
- Offers improved quench resistance and lower background counts compared to non-biodegradable solutions.

Order Code	Product	Quantity
SG-BXX-26	ScintLogic X	4 L
SG-BXX-03	ScintLogic X	4 x 4 L
SG-BXX-15	ScintLogic X	20 L Drum

## Modular Beta Workstation



Create an ideal size beta workstation with this unique modular system.

Simply slide 10 mm thick acrylic panels into upright joiners to form any size enclosure or barrier without using tools. Add the ergonomic beta front shield for a complete, personal size beta workstation. The system can be easily disassembled for convenient storage when not in use.

- All components are available separately in the standard sizes listed.
- Custom sizes can also be supplied.

Order Code	Product	Dimensions
CR-FXX-14	Acrylic Panel	460 x 600 mm
CR-FXX-15	Acrylic Panel	300 x 460 mm
CR-FXX-16	2 Way Joiner	460 mm
CR-FXX-17	Right Angle Joiner	460 mm
CR-FXX-19	Hinged Joiner	460 mm

## Brembox™



A stackable container constructed of 10 mm thick clear acrylic which provides shielding from beta radiation and allows efficient use of freezer space.

- Removable cover also serves as a portable shield.
- Safe for freezer storage to -70°C.

Order Code	Product	Dimensions
CR-FXX-26	Brembox™ 30 x 1.5 - 2.0 ml Tubes	145 x 120 x 65 mm

## Beta Radiation Shields



A range of shields in a variety of shapes and sizes, with two styles of base ideal for different applications.

The flat base is 300 x 300 mm and offers under bench protection. The curved base is 150 mm deep and is designed for use in conjunction with a safety spill tray.

Order Code	Product
CC-FXX-01	Beta Shield, Small fixed 15° angle, Flat base
CC-FXX-02	Beta Shield, Small fixed 15° angle, Curved base
CC-FXX-03	Beta Shield, Large fixed 15° angle, Flat base
CC-FXX-04	Beta Shield, Large fixed 15° angle, Curved base
CC-FXX-05	Beta Shield, Small fixed 45° angle, Flat base
CC-FXX-06	Beta Shield, Small fixed 45° angle, Curved base
CC-FXX-07	Beta Shield, Large fixed 45° angle, Flat base
CC-FXX-08	Beta Shield, Large fixed 45° angle, Curved base
CC-FXX-09	Beta Shield, 3 sided
CC-FXX-10	Beta Shield, Hourglass, Flat base
CC-FXX-11	Beta Shield, Hourglass, Curved base
CC-FXX-12	Beta Shield, Adjustable
CC-FXX-13	Beta Base Plate

# Shielding and Storage

## Micro-Tube Caddy



Ideal for storing and carrying sample tubes this caddy is constructed of 10 mm thick acrylic with a hinged lid.

- Accommodates PCR tubes and micro-tubes.
- Safe for freezer storage to -70°C.

Order Code	Product	Dimensions
CR-FXX-28	Micro-Tube Caddy, 4 x 0.5 ml and 8 x 1.5 - 2.0 ml Tubes	130 x 63 x 70 mm
CR-FXX-29	Micro-Tube Caddy, 16 x 0.2 ml Tubes	130 x 63 x 70 mm

## Micro-Tube Shields



Clear acrylic for maximum viewing of sample tubes, the shield is 10 mm thick and holds 24 x 1.5 - 2.0 ml and 15 x 0.5 ml tubes.

- Safe for freezer storage to -20°C.

Order Code	Product	Dimensions
CR-FXX-24	Micro-Tube Shield, Large	130 x 89 x 70 mm
CR-FXX-22	Micro-Tube Shield, Small	89 x 40 x 57 mm

## Micro Tube Cap Locks



Ideal for high temperature incubations, freezing and thawing procedures.

- Locks prevent lids from opening during temperature and pressure changes.
- Tab design allows tubes to be lifted easily in and out of water baths.
- Supplied 100 per package in assorted colours.

Order Code	Product	Quantity
CR-DXX-42	Micro Tube Cap Locks, 0.5 - 0.65 ml	100/pk
CR-DXX-43	Micro Tube Cap Locks, 1.5 - 2.0 ml	100/pk

## Micro-Tube Opener



Opens all 0.5 - 2.0 ml micro-tubes quickly and conveniently.

- Opener only touches the cap perimeter and reduces potential of aerosol contamination.
- Prevents thumb fatigue when processing large numbers of tubes.
- Made of autoclavable and chemical resistant polypropylene and supplied in assorted colours.

Order Code	Product	Quantity
CR-DXX-44	Micro-Tube Opener	25/pk

## Beta Storage Containers



Large interior space for various size containers plus room for crushed ice.

- Clear 10 mm thick acrylic.
- Can be stored in a freezer to -70°C.

Order Code	Product	Dimensions
CR-FXX-64	Beta Storage Container	180 x 115 x 90 mm

## Beta Shield Ice Box



Store in a freezer (to  $-70^{\circ}\text{C}$ ) or add crushed ice to keep samples cold for bench top use.

- Acrylic racks are designed to keep tubes in full contact with ice.
- Container is constructed of 10 mm thick heavy duty acrylic for shielding  $^{32}\text{P}$ .

Order Code	Product	Dimensions
CR-FXX-31	Beta Shield Ice Box	108 x 260 x 130 mm
CR-FXX-32	Micro-Tube Rack, 40 x 1.5 ml	82 x 216 x 57 mm
CR-FXX-33	Micro-Tube Rack, 60 x 0.5 ml	82 x 216 x 57 mm

## Micro-Tube Rack Beta Shields

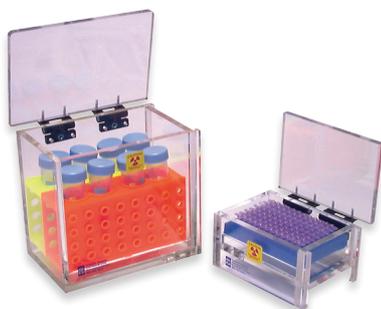


Acrylic beta shields (10 mm thick) for popular 80 well micro-tube racks and 96 well Flipper™ racks.

- Hinged door allows easy access.
- Shields are stackable and can be stored in a freezer to  $-70^{\circ}\text{C}$ .
- Racks not included.

Order Code	Product	Dimensions
CR-FXX-38	Micro-Tube Rack Shield	89 x 250 x 73 mm
CR-FXX-39	Flipper™ Rack Shield	230 x 165 x 80 mm

## Beta Rackbox™



Beta Rackbox™ provides convenient access to tubes when working with radioactive samples. Available in two styles with storage racks included.

- Removable end panel allows rack to slide in or out.
- Unique hinged lid can be positioned at any angle to serve as a shield.
- Constructed of heavy duty 10 mm thick clear acrylic.

Order Code	Product	Dimensions	Quantity
CR-FXX-34	Beta Rackbox™ with one PCR Tube Rack	108 x 150 x 89 mm	
CR-FXX-35	Beta Rackbox™ with two 4 way Flipper™ Racks	130 x 200 x 190 mm	
CR-FXX-36	PCR Tube Racks		5/pk
CR-FXX-37	4 Way Flipper™ Racks, Assorted colours		5/pk

## Rad-5 Lock Box™



Constructed of 10 mm thick heavy duty clear acrylic with a built-in cylinder key lock and tamper resistant hinges, the Rad-5 Lock Box™ is ideal for storing, handling and transporting assorted small bottles, vials and tubes.

- Large interior can be filled with crushed ice to keep samples cold.
- Safe for storage in a freezer to  $-70^{\circ}\text{C}$ .

Order Code	Product	Dimensions
CR-FXX-74	Rad-5 Lock Box™	275 x 170 x 120 mm
CR-FXX-75	Rad-5 Lock Box™	280 x 178 x 127 mm
CR-FXX-76	Rad-5 Lock Box™	325 x 250 x 170 mm
CR-FXX-77	Rad-5 Lock Box™	330 x 225 x 178 mm

# Shielding and Storage

## Micro-Plate Beta Shields

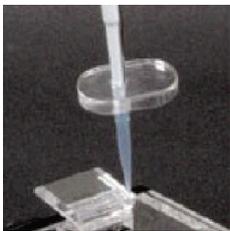


Convenient for storing and carrying 96 well assay or PCR plates containing radioactive samples.

- Heavy duty 10 mm acrylic shields  $^{32}\text{P}$  beta emissions and provides a clear view of micro-plate and sample wells.
- Safe for freezer storage to  $-70^{\circ}\text{C}$ .

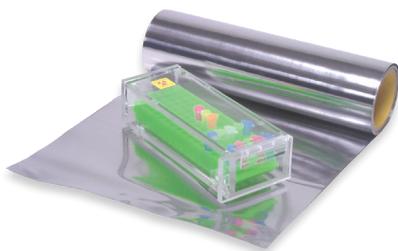
Order Code	Product	Dimensions
CR-FXX-40	Micro-plate Beta Shield with Hinged Cover	150 x 165 x 45 mm

## Beta and Gamma Pipette Shields



Order Code	Product
CC-FXX-41	Pipette Shield, Biohit PS1000 Beta
CC-FXX-42	Pipette Shield, Biohit PS200 Beta
CC-FXX-43	Pipette Shield, Biohit PS5000 Beta
CC-FXX-44	Pipette Shield, Gilson P1000 Beta
CC-FXX-45	Pipette Shield, Gilson P20/100 Beta
CC-FXX-46	Pipette Shield, Gilson P200 Beta
CC-FXX-47	Pipette Shield, Biohit PS1000 Gamma
CC-FXX-48	Pipette Shield, Biohit PS200 Gamma
CC-FXX-49	Pipette Shield, Biohit PS5000 Gamma
CC-FXX-50	Pipette Shield, Gilson P1000 Gamma
CC-FXX-51	Pipette Shield, Gilson P20/100 Gamma
CC-FXX-52	Pipette Shield, Gilson P200 Gamma

## Flexible Lead Foil



Flexible lead foil is ideal for wrapping around tubes, bottles or containers that require shielding from  $^{125}\text{I}$ .

- Cuts and forms easily into almost any shape required.
- Supplied in 355 mm wide rolls in three thicknesses.

Order Code	Product	Dimensions	Weight
CR-IXX-04	Flexible Lead Foil	6.7 m x 0.15 mm	4.5 kg
CR-IXX-05	Flexible Lead Foil	2.7 m x 0.38 mm	4.5 kg
CC-IXX-06	Flexible Lead Foil	1.5 m x 0.76 mm	4.5 kg

## Beta Transport Box



Includes a handy large sized lid on adjustable hinges which can also act as a shield when the unit is stationary.

Order Code	Product	Dimensions
CC-FXX-21	Beta Transport Box	75 x 295 x 38 mm

## Vinyl Coated Lead Sheets



Lead sheets are 2.2 mm thick and provide effective shielding from <sup>125</sup>I.

- Lead sheets have a thick vinyl coating for easier and safer handling. Coating also prevents scratching on bench top and equipment.
- Entire sheet is flexible and can be easily formed around objects.

Order Code	Product	Dimensions
CR-IXX-01	Lead Sheet with protective coating	50 x 178 x 2.2 mm
CR-IXX-02	Lead Sheet with protective coating	50 x 305 x 2.2 mm
CR-IXX-03	Lead Sheet with protective coating	203 x 610 x 2.2 mm

## Lead Acrylic Bench Top Shields



LabLogic's range of acrylic bench top shields provide shielding for low energy gamma emitters such as Iodine-125.

Lead acrylic has a working temperature range of +40°C to +48°C and should not be stored in a refrigerator or freezer. Lead acrylic thickness of 12 mm has a lead equivalency of 0.5 mm, whilst the acrylic thickness of the 35 mm lead has an equivalency of 1.5 mm.

Order Code	Product	Dimensions
CC-FXX-82	Gamma Shield, Flat base Large fixed 15° angle	Shield: 12 x 350 x 530 mm Base: 12 x 350 x 300 mm
CC-FXX-83	Gamma Shield, Curved base Large fixed 15° angle	Shield: 12 x 350 x 530 mm
CC-FXX-84	Gamma Shield, Flat base Small fixed 15° angle	Shield: 12 x 300 x 450 mm Base: 12 x 300 x 300 mm
CC-FXX-85	Gamma Shield, Curved base Small fixed 15° angle	Shield: 12 x 300 x 450 mm
CC-FXX-86	Gamma Shield, Flat base Large fixed 45° angle	Shield: 12 x 350 x 600 mm Base: 12 x 350 x 300 mm
CC-FXX-87	Gamma Shield, Curved base Large fixed 45° angle	Shield: 12 x 350 x 450 mm
CC-FXX-88	Gamma Shield, Flat base Small fixed 45° angle	Shield: 12 x 350 x 450 mm Base: 12 x 350 x 300 mm
CC-FXX-89	Gamma Shield, Curved base Small fixed 45° angle	Shield: 12 x 300 x 450 mm
CC-FXX-90	Gamma Shield, 3-sided	Front: 12 x 460 x 500 mm Base: 12 x 300 x 500 mm
CC-FXX-91	Gamma Shield, Flat base Hourglass	Front: 12 x 300 x 450 mm Base: 12 x 300 x 300 mm
CC-FXX-92	Gamma Shield, Curved base Hourglass	Front: 12 x 300 x 450 mm
CC-FXX-93	Gamma Base Plate	12 x 450 x 410 mm
CC-FXX-94	Gamma Shield, Adjustable	12 x 350 x 540 mm 12 x 540 x 350 mm
CC-FXX-95	Gamma Shield, Adjustable	35 x 350 x 540 mm 35 x 540 x 350 mm
CC-FXX-96	Duo Shield, Curved base Beta/Gamma	12 x 200 x 450 mm

# Shielding and Storage

## Lead Acrylic Storage Boxes



Order Code	Product	Dimensions
CC-FXX-97	Gamma Storage/Transport Box	120 x 150 x 70 mm
CC-FXX-98	Gamma Box, 1 L	80 x 100 x 130 mm
CC-FXX-99	Gamma Box, 6.5 L	165 x 280 x 140 mm
CC-FXX-100	Gamma Tip Box, 2 L	130 x 130 x 130 mm
CC-FXX-101	Gamma Multi Tip Box, 2 L	130 x 130 x 130 mm
CC-FXX-102	Gamma Bin, 3.3 L	150 x 150 x 150 mm
CC-FXX-103	Gamma Bin, 10 L	200 x 200 x 250 mm
CC-FXX-104	Gamma Bin, 15 L	235 x 215 x 380 mm
CC-FXX-105	Gamma Bin, 53 L	270 x 490 x 400 mm
CC-FXX-106	Gamma Box Mini	55 x 85 x 55 mm
CC-FXX-107	Gamma Box Midi	85 x 165 x 60 mm
CC-FXX-108	Gamma 2 Pig-pen Box	60 x 100 x 70 mm
CC-FXX-109	Gamma Work Cabinet	370 x 550 x 490 mm
CC-FXX-110	Gamma Carboy Cover	380 x 380 x 590 mm
CC-FXX-111	Gamma Box, 3.5 L	150 x 175 x 140 mm

## Lead Acrylic Rack Inserts



Order Code	Product
CC-DXX-29	Insert, 15 x 15 ml Centrifuge Tubes (fits CC-FXX-99)
CC-DXX-30	Mini Insert, 16 x 1.5 ml Tubes (fits CC-FXX-106)
CC-DXX-31	Insert, 8 x 50 ml Centrifuge Tubes (fits CC-FXX-99)
CC-DXX-32	Mini Insert, 20 x 0.5 ml Tubes (fits CC-FXX-106)
CC-DXX-33	Insert, 3 x Falcon Tubes, 8 x 1.5 ml Tubes (fits CC-FXX-99)
CC-DXX-34	Midi Insert, 32 x 1.5 ml Eppendorf Tubes (fits CC-FXX-107)
CC-DXX-35	Insert, 2 x Falcon Tubes, 8 x 1.5 ml Tubes (fits CC-FXX-99)
CC-DXX-36	Midi Insert, 40 x 1.5 ml Eppendorf Tubes (fits CC-FXX-107)
CC-DXX-37	Insert, 8 x 20 ml Scintillation Vials (fits CC-FXX-99)
CC-DXX-38	Insert, 15 x 5 ml Scintillation Vials (fits CC-FXX-99)
CC-DXX-39	Insert, 8 x Universal (fits CC-FXX-99)
CC-DXX-40	Midi Insert, 16 x 1.5 ml and 16 x 0.5 ml Tubes (fits CC-FXX-107)
CC-DXX-41	Midi Insert, 32 x 2 ml Cryotubes (fits CC-FXX-107)

## Custom Shielding



Custom made acrylic, lead acrylic shields and storage boxes.

Contact our office for a quotation.

## Rad-Can™ 1



**Ideal for micro-tubes and pipette tips.**

- Durable hinged lid.
- 10 mm thick clear acrylic.

Order Code	Product	Dimensions	Quantity
CR-FXX-53	Rad-Can™ 1	178 x 178 x 205 mm	
CR-HXX-01	Clear Liner for Rad-Can™ 1		100/pk

## Rad-Can™ 2



**Holds one 4 litre polyethylene bottle.**

- Open/close funnel port.
- Durable hinged lid.
- 10 mm thick clear acrylic.

Order Code	Product	Dimensions
CR-FXX-57	Rad-Can™ 2	115 x 115 x 170 mm
CR-HXX-03	Storage Bottle for Rad-Can™ 2, 4 Litre	

## Beta Shield Waste Container System



**The beta shield waste container system is designed for storing contaminated items such as micro-tubes, pipette tips, gloves, glassware, etc.**

The complete systems consists of a 10 mm thick clear acrylic container shield heavy duty waste receptacle and 3 mm poly liner. Each item is available separately.

- Heavy duty carton stores up to 0.06 m<sup>3</sup> of waste with a weight capacity of 34 kgs.
- Box is imprinted with the official radiation symbol and appropriate warning information.
- Yellow polyethylene liner printed with the radiation warning symbol is available for extra protection.

Order Code	Product	Dimensions	Quantity
CR-HXX-06	Corrugated Waste Box	310 x 310 x 628 mm	25/cs
CR-HXX-07	Heavy Duty Poly Liner	610 x 195 x 3 mm	25/cs

## Beta Tip Box



Can be used in conjunction with drawstring bags to give a convenient and visible area to dispose of radioactively contaminated tips.

- Available for single channel pipettes, and for multi-channel pipettes.

Order Code	Product	Dimensions	Quantity
CC-FXX-69	Beta Tip Box, 2 L		
CC-FXX-70	Beta Multi-Tip Box, 2 L		
CC-FXX-71	Beta Tip Box, Large, 5 L		
CC-HXX-08	Drawstring Bag	150 x 150 x 150 mm	25/pk
CC-HXX-09	Drawstring Bag	250 x 200 x 200 mm	25/pk
CC-HXX-10	Drawstring Bag	400 x 490 x 270 mm	25/pk
CC-HXX-11	Drawstring Bag	610 x 280 x 280 mm	25/pk

## Rad-2 Lock Box™



Designed to hold a 3.8 litre container for storing radioactive liquid waste.

- Lid is securely fastened with two adjustable tension hinges.
- 10 mm thick clear acrylic.
- Optional castors add 60 mm to height.

Order Code	Product	Dimensions
CR-FXX-81	Rad-2 Lock Box™	185 x 185 x 385 mm
CR-HXX-19	Polyethylene Bottle, 3.8 L	
CR-HXX-18	Set of 4 castors	

## Rad-3 Lock Box™



A accommodates a 19 litre carboy for contaminated items such as gloves, tips, tubes and glassware.

- Durable hinged lid.
- Spill catch tray.
- Optional castors.

Order Code	Product	Dimensions
CR-FXX-80	Rad-3 Lock Box™	340 x 340 x 585 mm
CR-HXX-17	Polyethylene Carboy, 19 L	
CR-HXX-18	Set of 4 castors	

## Rad-4 Lock Box™ Waste Storage System



A heavy duty, large storage capacity corrugated waste receptacle with 3 mm thick poly liner.

- Holds up to approximately 0.06 m<sup>3</sup> with a maximum weight of 34 kgs.
- Carton and liner printed with the official radiation symbol and appropriate warning.
- Available with optional castors (add 60 mm to height).

Order Code	Product	Dimensions	Quantity
CR-FXX-79	Rad-4 Lock Box™	410 x 410 x 685 x 10 mm	
CR-HXX-14	Corrugated Waste Box		25/cs
CR-HXX-15	Set of 4 castors		
CR-HXX-16	Heavy Duty Poly Liner		25/cs

## Radioactive Material Waste Bags



Clear and yellow tinted bags produced in heavy duty polyethylene.

- Available in a range of convenient sizes.

Order Code	Product	Dimensions	Quantity
CR-HXX-20	Printed Bags, Yellow	200 x 150 x 380 mm	100/pk
CR-HXX-22	Printed Bags, Yellow	280 x 280 x 760 mm	100/pk
CR-HXX-23	Printed Bags, Yellow	610 x 915 mm	250/roll
CR-HXX-24	Unprinted Bags, Clear	200 x 405 mm	100/pk
CR-HXX-25	Unprinted Bags, Clear	255 x 305 mm	100/pk
CR-HXX-26	Unprinted Bags, Clear	305 x 455 mm	100/pk
CR-HXX-27	Unprinted Bags, Clear	305 x 505 mm	100/pk
CR-HXX-28	Unprinted Bags, Clear	355 x 405 mm	100/pk
CR-HXX-29	Unprinted Bags, Clear	610 x 915 mm	100/pk

## Hazard Signs



A range of tapes and labels for designating radioactive areas and vessels.

Order Code	Product	Dimensions	Quantity
CC-DXX-25	Radiation Labels	25 x 25 mm	25/pk
CC-DXX-26	Radiation Labels	50 x 50 mm	25/pk
CC-DXX-27	Radiation Tape	25 mm	1/pk

# Monitors

## Radhound Multi-purpose Digital Radiation Meter

An easy to use multi-purpose digital radiation survey meter suitable for all contamination monitoring and radiation protection applications.

- Clear digital LCD display with backlight.
- GM and scintillation detector options.
- Scaler timer function.
- Ergonomic tilt stand.
- Wall mountable.
- Fully adjustable alarm levels.



## Radhound X/E and X/I

The Radhound X/E is an advanced hand-held general purpose radiation monitor, suitable for a wide range of probes. The X/I is a Radhound with an internal dose rate detector.

This feature-packed instrument boasts some unique features such as the ability to switch between probes via the menu allowing, for example, a dose rate probe and a contamination probe to be configured for use with one instrument. This flexibility allows any standard probe to be used (300 - 1200 V).



## Handhound

Designed for use in 'wet-chemistry' radio-isotope handling situations where hands could be contaminated, the mains-operated Handhound voice activated monitor is an ideal solution.

- Entirely voice operated to avoid instrument contamination.
- Sensitive scintillation counter for gamma emitters.
- Automatic background updates.
- Fixed or dynamic alarm thresholds.
- Alternative detector options covering wide range of nuclides.
- Stainless steel housing for ease of cleaning and decontamination.
- Automatic record keeping against user names, to aid with HSE compliance.
- Touch-screen compatibility included as an alternative to voice operation.
- Data can be downloaded onto USB.





## T401 and T403 Contamination Monitors

Designed to meet the challenge of combining operational reliability with excellent sensitivity the T401 and T403 offer a range of features including direct surface ability mode and peak reading.

- The detachable radiation probe of the T401 is supplied with up to 1.5 metres of extendable cable.
- The detector probe of the T403 is attached to 10 metres of cable, allowing the monitor to be used to survey surface contamination levels up to 10 metres away from the body of the monitor.
- Both monitors can be supplied with an extension pole kit to securely deploy the detector probe during monitoring operations.

## T402 and T406 Dose Rate and X-ray Monitors

The T402 detects X-rays and gamma rays from 60 keV - 1.33 MeV. T406 operates between 17 keV - 1.33 MeV.

Both instruments are lightweight, yet robust and comfortable to use over extended periods. They are also waterproof, easy to clean and decontaminate.

## Personal Electronic Dosimeter (PED)

Ideal for users who are not specially trained to measure radiation exposure, the PED family have been specially designed to be easy to use and understand. Encased in weather, shock and drop proof housings each PED features a smooth clean design and simple to use DoseVision™ software.

- Detects X-rays and gamma rays from 33 keV - 1.33 MeV.
- One touch operation.
- Easy to read large Amoled display screen displaying dose rate, accumulated dose and animated silhouette indicating dose received.
- Waterproof up to 1 m.



## NORM Monitor-IS

The ultimate tool for obtaining accurate NORM measurements in hazardous areas, the NORM Monitor-IS is ATEX approved with dual probe capabilities; Geiger Müller and scintillator.

- Large, easy to read LCD screen with bar graph and back light.
- On-touch integrate function that allows detection of very low activities for increased measurement accuracy.
- Live background subtraction and several measurement modes.
- Adjustable alarm thresholds for improved safety.



# Benchtop Counting / Microplate Readers

## Hidex Triathler Liquid Scintillation Counter

**A compact and portable single-well instrument that provides instant results for liquid scintillation counting and luminescence measurements.**

In liquid scintillation counting mode, Triathler has preset modes for  $^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{32}\text{P}$ ,  $^{33}\text{P}$ ,  $^{35}\text{S}$ , and reliable detection for most other radionuclides. The on-board software has data export capabilities to a printer or PC (Excel) and allows advanced spectrum analysis and optional instrument control.



## Hidex 300 SL Liquid Scintillation Counter

**The 300 SL employs Triple to Double Coincidence Ratio (TDCR) counting to provide instant DPM results without the need for any internal or external standards.**

Completely controlled from an external PC with an easy-to-use, yet sophisticated software program which offers an unlimited number of pre-stored isotopes and protocols and automatic data export to Excel or other programs. The software also provides options for 21 CFR Part 11 compliance and extensive data reduction features such as quench curve analysis, IC/EC 50 value calculations etc.

## Hidex AMG Automatic Gamma Counter

**Specifically designed for Nuclear Medicine and PET applications, the Hidex Automatic Gamma Counter delivers fast and accurate results every time.**

Controlled by touchscreen operated software and using a 3" NaI crystal it provides superb counting efficiency, whilst its optimised lead shielding ensures low background and minimal interference from samples on the conveyor.



## Hidex Sense Microplate Reader

**An application ready high performance multi-mode microplate reader which uniquely combines liquid scintillation, beta and gamma counting, high sensitivity luminescence and all common non-radioactive detection technologies including special photometric detection into one very compact instrument.**



## Scan-RAM PET/SPECT radio-TLC Scanner

The Scan-RAM radio-TLC scanner is primarily intended to be used as a radio-TLC scanner for gamma (PET and SPECT) and high energy beta radionuclides to determine radiochemical purity (RCP) of different products.

This instrument can utilise a range of detectors, making it suitable for use with various levels of radioactivity.



## Flow-RAM PET/SPECT radio-HPLC Detector

The Flow-RAM radio-HPLC detector is primarily intended to be used as a radio-HPLC system for gamma (PET and SPECT) and high energy beta radionuclides in both production and research and development areas.

This instrument can be connected to a range of detectors, making it suitable for use with various levels of radioactivity.



## Beta-RAM radio-HPLC Flow Detector

Already in use in thousands of laboratories world wide the  $\beta$ -RAM has a well deserved reputation for the best sensitivity and reliability.

Whatever challenge your analysis presents, the  $\beta$ -RAM has a configuration to suit you. Coupled with the industry standard Laura radiochromatography data system it leads the way for radiochromatographers.



## Posi-RAM Coincidence-Type Positron Flow-Through Counter

The Posi-RAM is specifically designed for the detection and quantification of low level PET metabolites.

Fitted with two independent counting channels, one for coincidences and a second channel available for gross gamma counts. Coupled with options such as Splitter and other accessories help make the Posi-RAM ideal for PET metabolite R & D laboratory environments.



# Ordering Information

## Order by Telephone

+44 (0)114 266 7267

Customer service hours are Monday - Friday  
0900 - 1730 GMT/BST

---

## Order by Fax

+44 (0)114 266 3944

---

## Order by E-mail

[consumables@lablogic.com](mailto:consumables@lablogic.com)

Customer service hours are Monday - Friday  
0900 - 1730 GMT/BST

---

## Order by Mail

Mail purchase orders to:

LabLogic Systems Limited  
Paradigm House, 3 Melbourne Avenue  
Broomhill, Sheffield, S10 2QJ, UK

Please ensure that you include the following information:

- Order number
- Your delivery address
- Your invoice address
- Your e-mail address
- Telephone number
- Contact name
- Catalogue number and quantity needed
- VAT exemption form if applicable

A price list is available on application.

Delivery is charged at cost.

Normal delivery time will be 5 working days.

Large shipments by arrangement.

Payment terms are Net 30 days.

---

### Europe & Worldwide

#### LabLogic Systems Limited

Paradigm House, 3 Melbourne Avenue  
Broomhill, Sheffield, S10 2QJ, UK

E-mail: [solutions@lablogic.com](mailto:solutions@lablogic.com)

Tel: +44 (0)114 266 7267

Fax: +44 (0)114 266 3944

Web: [www.lablogic.com](http://www.lablogic.com)



Certificate No: 1535  
ISO 9001



### USA & Canada

#### LabLogic Systems, Inc.

East Pointe Park, 1040 East Brandon Blvd.  
Brandon, FL 33511-5509, USA

E-mail: [solutions@lablogic.com](mailto:solutions@lablogic.com)

Tel: +1-813-626-6848

Fax: +1-813-620-3708

Web: [www.lablogic.com](http://www.lablogic.com)



Certificate No: 10926  
ISO 9001



EXPERIENCE & EXPERTISE