

Radiation Safety Essentials and 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.

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Bind-It[™]

CQ-LXX-01

CQ-LXX-02

CQ-LXX-03

CQ-LXX-04

CQ-LXX-05

CQ-LXX-06

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.



Contamination Control

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.

Biodegradeable 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	LαbClean™	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

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



LabLogic 0112 200

Scintillation Counting Accessories

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 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



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 -≤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



Scintillation Vial Storage Containers, Trays and Partitions

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.

The 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-DXX-15	Scintillation Vial Storage Container	336 x 336 x 82 mm	
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



Scintillation Vial Racks

Ideal for use when processing samples or transporting scintillation vials.

- Racks available to accommodate full size (20 ml)
- 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

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



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% ³H 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 biodegradeable 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% ³H 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 HC

A safe scintillation cocktail for aqueous samples, it has a high counting efficiency for low to medium iconic 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



Shielding and Storage

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

FlowLogic LW

The highest efficiency, low toxicity biodegradeable 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.

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



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 300×300 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

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



Shielding and Storage

Flexible Lead Foil

Flexible lead foil is ideal for wrapping around tubes, bottles or containers that require shielding from 125 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

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°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

Lead Acrylic Storage Boxes, Bench Top Shields, Rack Inserts

LabLogic's range of acrylic bench top shields provide shielding for low energy gamma emitters such as $^{125}\mathrm{I}$.

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





Order Code	Product	Dimensions
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
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
CC-DXX-29	Insert, 15 x 15 ml Centrifuge Tubes (fits 0	CC-FXX-99)
CC-DXX-30	Mini Insert, 16 x 1.5 ml Tubes (fits CC-FX	X-106)
CC-DXX-31	Insert, 8 x 50 ml Centrifuge Tubes (fits Co	C-FXX-99)
CC-DXX-32	Mini Insert, 20 x 0.5 ml Tubes (fits CC-FX	X-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	DXX-37 Insert, 8 x 20 ml Scintillation Vials (fits CC-FXX-99)	
CC-DXX-38	Insert, 15 x 5 ml Scintillation Vials (fits C	C-FXX-99)
CC-DXX-39	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-10		ubes (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.



Waste Disposal

Rad-Can[™] 1

Ideal for micr o-tubes and pipette tips.

• 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.
- 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

Designed for storing contaminated items such as micro-tubes, pipette tips, gloves, and glassware, the complete system 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 m³ of waste with a weight capacity of 34 kgs.

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
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

Drawstring bags in various sizes available. Further information is available on request.



Rad Lock Boxes

Designed for storing radioactive liquid waste, or contaminated items such as gloves, tips, tubes and glassware.

- 10 mm thick clear acrylic.
- · Optional castors.

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-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	



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



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



Ordering Information

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