

Labware

Linbro® Tissue Culture Plates

- Numbered wells
- Clear, rigid, virgin polystyrene
- Stackable
- High optical clarity
- Sterile, flat-bottom
- Tissue culture treated

Linbro® plates are ideal for a variety of applications including cell cloning and metabolic labeling procedures. All plates are subjected to stringent quality assurance tests throughout every phase of production assuring consistent results everytime. Following production, technicians test plates for physical integrity and biological performance. All plates are provided with covers unless otherwise noted.



Linbro® 96-Well Microplates

- Clear, rigid, virgin polystyrene
- Ergonomic stackable design
- Sterile, individually wrapped
- Cell culture treated
- High optical clarity

Linbro® 96-Well Microplates are available in three well styles- Flat Bottomed, U-Shaped Bottom and V-Shaped Bottom. The lettered and numbered rows simplifies identification. The Lightweight design offers additional advantages including interwell spaces, individual well identification, gripping tabs and raised well rims. The lid features control rings which fit precisely over the wells reducing the risk of cross-contamination. All microplates are provided sterile, cell culture treated unless otherwise noted.



Labware

Multiwell Culture Plates with covers

	Growth Area (cm ²)	Catalog No.	Quantity
4-Well Plate (dimensions: 14x14x2 cm, well size: 6x1.5 cm)	28.2	7603705	100/cs
6-Well Plate (dimensions: 13x8.8x1.5 cm, well size: 3.5x1.0 cm)	9.62	7605805	100/cs
6-Well Plate (dimensions: 13x8.8x1.5 cm, well size: 3.5x1.0 cm)	9.62	7604905	100/cs
12-Well Plate (dimensions: 11.1x8.4x2.2 cm, well size: 2.4x1.7 cm)	4.50	7605305	100/cs
24-Well Plate (dimensions: 15x10.8x2.2 cm, well size: 1.7x1.6 cm)	2.00	7603305	100/cs
24-Well, Space Saver (dimensions: 13x8.7x2.1 cm, well size: 1.7x1.6 cm)	2.00	7606305	100/cs

Flat-bottomed Microplates

Growth area: 0.38 cm²
 Approximate dimensions: 13.0 x 8.8 x 1.5 cm
 Approximate well size: 1.0 x 0.7 cm
 Well capacity: 0.35 ml

	Catalog No.	Quantity
Sterile, TC, with cover	7600305	100/cs
NS, NT, w/o cover	7630105	100/cs
Lightweight design, sterile, TC w/o cover	7603105	100/cs
Lightweight design, sterile, TC, with cover	7603205	100/cs
Lightweight design, sterile, NT, w/o cover	7623105	100/cs
Lightweight design, sterile, NT, with cover	7623205	100/cs
Lightweight, NS, NT w/o cover	7633105	100/cs

TC = tissue culture treated
 NS = non-sterile
 NT = not treated

U-bottom Microplates

Growth area: 0.28 cm²
 Approximate dimensions: 12.8 x 8.6 x 1.5 cm
 Approximate well size: 1.0 x 0.7 cm
 Well capacity: 0.25 ml

	Catalog No.	Quantity
Sterile, TC, with cover	7601305	100/cs
Sterile, TC, with cover	7601804	50/cs
NS, NT, w/o cover	7631105	100/cs
Lightweight design, sterile, TC w/o cover	7604105	100/cs
Lightweight design, sterile, TC, with cover	7604205	100/cs
Lightweight design, sterile, NT, w/o cover	7624105	100/cs
Lightweight design, sterile, NT, with cover	7624205	100/cs
Lightweight, NS, NT w/o cover	7634105	100/cs

TC = tissue culture treated
 NS = non-sterile
 NT = not treated

V-bottom Microplates

Growth area: 0.28 cm²
 Approximate dimensions: 12.8 x 8.6 x 1.5 cm
 Approximate well size: 1.0 x 0.7 cm
 Well capacity: 0.25 ml

	Catalog No.	Quantity
Sterile, TC, w/o cover	7602205	100/cs
Sterile, TC, with cover	7602305	50/cs
Sterile, NT, with cover	7622305	100/cs
NS, NT, w/o cover	7632105	100/cs

TC = tissue culture treated
 NS = non-sterile
 NT = not treated

Polyvinylchloride (PVC) Microplates

For EIA and RIA applications.

Growth area: 0.38 cm²
 Approximate dimensions: 12.8 x 8.6 x 1.5 cm
 Approximate well size: 1.0 x 0.7 cm
 Well capacity: 0.35 ml

	Bottom Design	Catalog No.	Quantity
Highly activated plate	FB	7717205	100/cs
Activated plate	FB	7717305	100/cs
Highly activated, γ -irradiated plate	FB	7717405	100/cs
Activated plate	U	7717605	100/cs
Non-sterile cover		7717505	100/cs

Microplate Covers and Miscellaneous Plates

	Catalog No.	Quantity
Sterile cover (for plate 7602205)	7620505	100/cs
NS cover (for plates 7631105 and 7632105)	7640504	50/cs
Lightweight sterile cover (for plates 7603105, 7623105, 7604105 and 7624105)	7621505	100/cs
Lightweight cover, NS (for plates 7633105 and 7634105)	7641505	100/cs
Polystyrene, flat-bottomed tray, white, high impact, (dimensions: 30x20x1.3 cm, well capacity: 2 ml)	7630205	100/cs
Acrylic, U-bottomed (well capacity: 0.2 ml)	7636405	100/cs

NS = non-sterile

96 Well EIA Microplates



ICN's EIA and EIA II microplates offer medium and high level protein binding characteristics, optical clarity and batch homogeneity. Each lot must pass stringent quality assurance tests assuring superior performance and consistency.

	Catalog No.	Quantity
EIA plate	7638104	50/cs
EIA II plate	7618104	50/cs
EIA plate cover	7640504	50/cs

Microplate Sealers



Acetate plate sealers are not gas permeable and mylar plate sealers are gas permeable. All sealers are supplied non-sterile (NS), and they are NOT autoclavable. The dimensions are approximately 13.3 x 8.3 cm.

	Catalog No.	Quantity
Acetate sealer	7640105	100/cs
Mylar sealer	7640205	100/cs
Sealing tape (60 m)	7742000	1 roll
Sealing tape roller	7740200	1 each

Labware

Smartplastic™

Cultureware for enhanced cell attachment!

- *No weaning period*
- *Faster and stronger cell adherence*
- *Improved plating efficiencies*
- *Greater In vivo-like morphology*
- *Improved cell growth*
- *Better performance and consistency*



SmartPlastic™ from ICN is designed for maximum cell attachment in both serum and serum-free culture conditions. It is treated with Pronectin® F, an advanced bioengineered attachment molecule that contains **Arg-Gly-Asp (RGD)** tripeptide repeats common to most extracellular matrix proteins. Apart from providing the physical support for cell attachment, SmartPlastic™ influences cell spreading, survival, metabolism and morphology. It enables direct transition to serum-free cell culture conditions and improved primary culture efficiency in both serum and serum-free conditions. Numerous cell types including bone, embryonic, endothelial, epithelial, eye-derived, fibroblasts, muscle, neuronal, parenchymal and tumor have benefited from SmartPlastic™. All plates are provided sterile and individually wrapped.

Multiwell Plates

	Catalog No.	Quantity
6-Well plate with cover	7691101	5/pk
	7691102	10/pk
	7691103	20/pk
24-Well plate with cover	7691201	5/pk
	7691202	10/pk
	7691203	20/pk
96-Well plate with cover	7691301	5/pk
	7691302	10/pk
	7691303	20/pk

Culture Dishes

	Catalog No.	Quantity
35x10 mm dish	7690103	20/pk
	7690105	100/pk
	76901H4	200/cs
60x15 mm dish	7690203	20/pk
	7690205	100/pk
	76902H4	200/cs
100x20 mm	7690303	20/pk
	7690305	100/pk
	76903H4	200/cs

Pronectin® F Coating Kits

	Catalog No.	Quantity
Pronectin® F Kit makes with 1 mg powder, (contains 1 mg powder and 1 ml diluent; makes 100 ml)	7690001	1 ml
Pronectin® F Kit makes with 1 mg powder, (contains 5 mg powder and 5 ml diluent; makes 500 ml)	7690005	5 ml

Lux® Culture Dishes

All dishes are surface treated and sterilized for optimum results. Dishes are vented unless otherwise noted.

Culture Dishes

	Catalog No.	Quantity
35x10 mm	LX5221X	100/cs
	LX5221	500/cs
35x10 mm with 2 mm grid	LX5217X	100/cs
	LX5217	500/cs
35x10 mm suspension dish	LX171099X	100/cs
	LX171099	500/cs
60x15 mm	LX5220X	100/cs
	LX5220	500/cs
60x15 mm with 2 mm grid	LX5216X	100/cs
	LX5216	400/cs
100x15 mm	LX5211X	100/cs
	LX5211	500/cs
150x15 mm	LX5150X	10/pk
	LX5150	120/cs

Lab-Tek® Petri Dishes

- *Optically clear polystyrene*
- *Top and bottom stacking rings*
- *Sterility assured*
- *Disposable*



Petri Dishes

	Catalog No.	Quantity
60x15 mm	LX4034X	100/cs
	LX4034	500/cs
60x15 mm Permanox	LX5213X	100/cs
	LX5213	500/cs
60x20 mm Deep Dish	LX4036X	96/pk
	LX4036	400/cs
70x16 mm Contact Dish	LX4038X	140/pk
	LX4038	700/cs
100x10 mm Complete	LX4061X	150/cs
	LX4061	750/cs
100x15 mm	LX4002X	100/cs
	LX4002	500/cs
100x15 mm Bi-Petri	LX4006X	100/cs
	LX4006	500/cs
100x15 mm Quebec Grid	LX4018X	100/cs
	LX4018	500/cs
150x15 mm	LX4004	120/cs
100x100x15 mm (Square)	LX4021X	100/cs
	LX4021	500/cs
245x245x20 Bio-Assay Dish	LX240835	16/cs

Other Culture Plates

	Catalog No.	Quantity
24-Well TCC	9704160	25/pk
HTC Dish, ST	9633160	60/pk
CC	9629161	100/cs
CC	9629180	100/cs
GC Dish	9633175	100/cs

Lux® Culture Flasks

- *Sterile*
- *Disposable*
- *Distortion-free flat surface*
- *Positive stacking design*
- *Uniform confluency*



Lux® flasks provide exceptional optical clarity, excellent cell attachment and optimal growth. A variety of flasks are available to suit your particular requirements. All flasks are supplied sterile with your choice of filter (F), polyethylene (PE) or phenolic (PN) caps, as well as, straight (ST) or angled (AN) neck.

Flasks

	Catalog No.	Quantity
25cm ² , AN, PE	LX5025A	20/pk
	LX5025	160/cs
25cm ² , ST, PN	LX5325	200/cs
25cm ² , AN, F	LX136196	80/cs
80cm ² , ST, PE	LX5080A	5/pk
	LX5080	50/cs
80cm ² , AN, F	LX178891	50/cs
80cm ² , ST, F	LX178905	50/cs
175cm ² , ST, F	LX178883	32/cs
500cm ² , ST, vent/close	LX132867X	16/cs
500cm ² , ST, F	LX132913X	16/cs

Ambitube™

The versatile design of the ICN Ambitube™ allows them to be used as small flasks, cell culture tubes or Leighton tubes. They are surface treated and tested for optimal growth and attachment. Each tube features a screw-top and a flat side. They are supplied in convenient trays of 10 tubes in numbered positions. The tray is made from high quality virgin polystyrene for high optical clarity and is stackable. They are sterilized by γ -irradiation.

	Catalog No.	Quantity
Ambitube, 16x110 mm	LX156758A	75/pk
	LX156758	450/cs

Lab-Tek® Chamber Slides

The unique multi-chamber construction is ideal for micro-cultures of different cell types and using different reagents while maintaining controls on the same slide. They can be used for immunofluorescence and autoradiography procedures. Serial stop-action stains of any chamber may be made at any testing stage. Additionally, they can be filed for reference once the plastic chambers and gaskets are removed and coverslips applied.



	Working Volume	Catalog No.	Quantity
1 Chamber Slide	4-5 ml	LX4801	96/cs
2 Chamber Slide	2-2.5 ml	LX4802	96/cs
4-Chamber Slide	0.7-1.0 ml	LX4804A LX4804	16/cs 96/cs
8 Chamber Slide	0.3-4.5 ml	LX4808A LX4808	16/cs 96/cs
16 Chamber Slide	300 µl	LX178599A LX178599	16/cs 96/cs

PlantCon™ Culture Containers

- Sterile
- Easy-to-use
- Disposable, non-breakable construction
- Economical



PlantCon™ containers are specifically designed for plant culture applications. They are scientifically engineered for exceptional light transmission and optimal growth. They are safe, convenient and save on space. Tops and bottoms are packaged separately for shipping purposes.

	Catalog No.	Quantity
PlantCon™ Container, sterile	2672206	200/cs
PlantCon™ Cover, sterile	2672102	10/pk
PlantCon™ Base, sterile	2672002	10/pk

Inoculation Loops



Color	Loop Volume	Catalog No.	Quantity	Price
Clear Loop	1 µl	LX253287	500/cs	
Blue Loop	10 µl	LX251586	500/cs	

ICN
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Labware

Plant Tissue Culture Containers

ICN PTC™ containers are specially engineered for optimum plant tissue culture growth. Each container allows for the maximum transmission of light for accelerated growth. They are constructed of high quality polystyrene and supplied sterile with lids.

	Catalog No.	Quantity
50x100 mm	9960100 9960101	45/pk 315/cs
68x68 mm	9967100 9967101	40/pk 320/cs
68x110 mm	9968100 9968101	24/pk 192/cs

Tissue Grinders



Shape	Catalog No.	Quantity
Conical grinder	170060	6/pk
	170160	6x6/pk
Spherical grinder	170061	6/pk
	170161	6x6/pk

Magnetic Cell Scrapers



ICN's magnetic cell scrapers are Teflon® coated stainless steel and can be activated within the vessel by placing it on a low speed magnetic stirrer or by manual magnet movement outside the vessel. Three sizes are available depending on the flask neck size.

Dimensions	Catalog No.	Quantity
9.5 mm	170003	6/pk
19 mm	170004	6/pk
32 mm	170005	6/pk
2 of Each Size	170006	6/pk

Cell Scrapers

ICN cell scrapers provide easy and efficient scraping. The faceted joint between the blade and handle permits a variety of scraping angles, even around flask edges. The blade is constructed of polyethylene, the handle of polystyrene. They are supplied sterile.

Size	Catalog No.	Quantity
Small	LX179693	50/cs
Large	LX179707	50/cs

Linbro® Cryovials



Linbro® cryogenic storage vials are precision manufactured from high-strength, inert polypropylene. The γ -irradiated vials are free of contaminants. Vials are supplied in convenient, resealable plastic bags. They will not leak and feature a white, frosted writing area. They are available as free-standing or with a rounded-bottom.

Capacity	Catalog No.	Quantity
1.0 cc free-standing	76505S5	450/cs
1.2 cc free-standing	7650007	500/cs
2.0 cc rounded bottom	7650107	500/cs
2.0 cc free-standing	76502S5	450/cs
2.0 cc free-standing	76506S5	450/cs
4.0 cc rounded bottom	76503B8	400/cs
5.0 cc rounded bottom	76504B5	300/cs



Labware

Hot Box™ System

- Total containment of radioactive gases
- Substantially reduces laboratory contamination
- Economical
- Stackable design
- Ideal for all ³⁵S labeling protocols
- Eliminates decontamination of incubators



The Hot Box™ system improves laboratory safety by eliminating the contamination hazard of volatile ³⁵S compounds used in metabolic labeling procedures. It isolates labeling within the system, allowing for full use of your CO₂ incubator. The Hot Box™ system is easy-to-use. Simply place the experiment to be labeled and a "Static Hot Filter" in the system, attach the Exhaust Hot Filter and then flush the unit with the desired gas mixture. Next, seal the unit, remove the "Exhaust Hot Filter" and "Flow Meter". Place the system in the properly controlled temperature environment. To remove the labeled cells, reattach the "Exhaust Hot Filter" and "Flow Meter". Flush the system again. Finally, just dispose of both filters.

If an ICN Modular Incubator Chamber was previously purchased, it can be converted to a Hot Box™ system with either Hot Box Conversion Kit. Complete instructions are provided.

	Catalog No.	Quantity
Complete system with Single Flow meter	6154000	1 each
Complete system with Dual Flow meter	6154100	1 each
Filters (5 static and 5 exhaust)	6154200	1 Pack
Air filters (sterile)	6154300	6/pk
Chimney filters	6154400	5/pk
Conversion Kit A with Single Flow meter	6154500	1 kit
Conversion Kit B with Dual Flow meter	6154600	1 kit

Modular Incubator Chamber



This versatile, compact incubator is ideal for any kind of culture application. It is a reliable, airtight system which permits the easy isolation of individual experiments. The unique design allows for simple stacking for economical and space saving advantages.

	Catalog No.	Quantity
Modular Incubator Chamber	6153000	1 each
Replacement Lid	6153200	1 each
Replacement Base	6153300	1 each
Replacement Tray	6153400	1 each
Marman Clamp	6153500	1 each
O-Ring	6153600	1 each
Tubing Clamp w/tubing	6153700	1 each

FlowPore™ Syringe Filters

- Sterile
- Maximum protein recovery
- Ideal for aqueous samples
- No cytotoxicity

ICNs Flowpore Syringe Filters are ideal for use in cell culture applications. The Modified Acrylic resin used in the filter housings is USP XXII Class VI plastics approved, and has passed all tests for cytotoxicity. This ensures that no cytotoxins which lead to cell death will leach from these filter housings. The acrylic resin will not discolor when sterilized.

Each syringe filter features a Cellulose Acetate membrane, a very low protein binding membrane perfectly suited for aqueous based biological samples. They are an excellent choice when maximum protein recovery in the filtrate is critical, and they are well suited for the sterile filtration of tissue culture media and sensitive biological samples.

ICNs Flowpore Syringe Filters are supplied sterile and individually packaged. They are available in two pore sizes and each filter is 25 mm in diameter.

	Pore Size	Catalog No.	Quantity
Syringe Filter	0.22 µm	6400104	50/box
Syringe Filter	0.45 µm	6400204	50/box

7X[®] Laboratory Detergents

The laboratory detergents researchers have trusted over 40 years.
Available exclusively from ICN!

- Safe, effective cleaning solutions
- Environmentally safe, phosphate-free formulations
- Completely soluble in water at ANY concentration
- Drains completely from glassware in seconds
- Contains powerful sequestering reagents
- Suitable for cell culture labware and general purpose lab use
- Cleans glass and/or plastic labware
- Automatic & Manual formulations



7X[®] has been used for forty years for safe and effective cleaning of laboratory instruments and apparatus. It was originally developed to be an effective solution for hand-cleaning procedures. However, today environmentally friendly (phosphate-free) and automatic washer formulations are available.

7X[®]-O-Matic was developed to be an effective detergent for cleaning procedures using automatic or mechanical washers. Additionally, ICN offers ES 7X[®]-O-Matic (7X[®]-PF-O-Matic in Europe) as an environmentally safe friendly alternative which is phosphate free.

7X[®] Hand-wash Formulations

	Catalog No.	Quantity
7X [®] Original	7667094	4x1 gallon
	7667095	5 gallons
	7667098	55 gallons
ES 7X [®] detergent	7667194	4x1 gallon
	7667195	5 gallons
	7667198	55 gallons
7X [®] -PF detergent	7667121	2x5 liter
	7667125	9x1 liter
	7667128	1x25 liter
	7667129	1x200 liter

7X[®] Automatic Washer Formulations

	Catalog No.	Quantity
7X [®] O-Matic	7667494	4x1 gallon
	7667495	5 gallons
	7667498	55 gallons
ES 7X [®] O-Matic detergent	7667594	4x1 gallon
	7667595	5 gallons
	7667598	55 gallons
7X [®] -PF O-Matic detergent	7667521	2x5 liter
	7667525	9x1 liter
	7667528	1x25 liter
	7667529	1x200 liter

Accessories

	Catalog No.	Quantity
7X [®] Meter-Mixer Control	7663000	1 each
Quick Serve Faucet (fits 1 gallon containers)	9941431	1 each
Spigot/Tap (fits 5 gallon containers)	9312127	1 each

Dekasol[™] Decontamination Solution

Diluted to 10% (5:50 Dekasol[™] : H₂O) Dekasol[™] is an economical and extremely effective agent for the removal of radioactivity from the surfaces of laboratory glassware and equipment. Following a 24-hour soak at room temperature in 5% Dekasol[™] and distilled H₂O rinsing, residual activity for carbon-14, tritium and phosphorus-32 is usually 0.2% of the original activity. For more stubborn substrate's, soaking in a 20% solution of Dekasol[™] at 50°C for two hours will provide effective decontamination. More rapid decontamination can be accomplished by increasing the concentration and elevating the solution temperature.

Dekasol[™] will quickly remove:

- Stopcock and vacuum greases
- Canada balsam
- Lanolin
- Petroleum jelly
- Polymer films
- Protein complexes
- Amino and fatty acids

	Catalog No.	Quantity
Dekasol [™]	808026	1 gallon 4x1 gallon

Labware

LINBRO® Microcentrifuge Tubes

- Amber Screw Top Tubes
- Natural Screw Top Tubes
- Snap-Top Tubes in Rainbow Colors
- Safe, Convenient Storage for All Types of Cells



Linbro® microcentrifuge tubes are available for all your cell culture needs. For researchers working with light sensitive samples, there's the Linbro® Amber Tube. For those experiments that entail large numbers of samples that may be difficult to organize and keep track of, ICN offers Linbro® microcentrifuge tubes in a RAINBOW assortment of colors. Linbro microcentrifuge tubes are graduated and have a frosted writing area on the side. As with all Linbro® plasticware, these tubes are manufactured from virgin, top quality material.

Amber Tubes

For Light Sensitive Samples!

- Protects precious light sensitive cells and cell lines
- Frosted writing area
- Screw cap with or without O-ring
- Made from virgin polystyrene
- Free-standing and rounded bottom

	Capacity	Catalog No.	Quantity
Conical	0.5 ml	158423	500/cs 5000/cs
Conical	1.5 ml	158424	500/cs 5000/cs
Conical	2.0 ml	158425	500/cs 5000/cs
Free-standing	0.5 ml	158426	500/cs 5000/cs
Free-standing	1.5 ml	158427	500/cs 5000/cs
Free-standing	2.0 ml	158428	500/cs 5000/cs
Screw cap without O-Ring		158429	500/cs 5000/cs
Screw cap with O-Ring		158430	500/cs 5000/cs

Natural Microtubes

- All purpose use
- Frosted writing area on both tube and cap
- Screw cap with O-ring included
- Clear, virgin, polypropylene construction
- Free-standing or conical



	Capacity	Catalog No.	Quantity
Conical	0.5 ml	158439	500/cs 5000/cs
Conical	1.5 ml	158440	500/cs 5000/cs
Conical	2.0 ml	158441	500/cs 5000/cs
Free-standing	0.5 ml.	158442	500/cs 5000/cs
Free-standing	1.5 ml	158443	500/cs 5000/cs
Free-standing	2.0 ml	158444	500/cs 5000/cs

RAINBOW Strip Microtubes

Color	Catalog No.	Quantity
Assorted Colors	159510	480/cs
Natural	159509	480/cs
Blue	159503	480/cs
Green	159505	480/cs
Orange	159506	480/cs
Red	159502	480/cs
Violet	159507	480/cs
Yellow	159504	480/cs

RAINBOW Strip Microtube Caps

Color	Catalog No.	Quantity
Assorted	159534	480/cs
Natural	159535	480/cs
Blue	159537	480/cs
Green	159538	480/cs
Orange	159539	480/cs
Red	159542	480/cs
Violet	159543	480/cs
Yellow	159544	480/cs

Linbro® RAINBOW Tubes

- Multicolored snap-top tubes
- Reference lines for quick volume estimation
- Frosted writing area on flat top cap
- Optically clear
- Clear, virgin, polypropylene construction



0.2 ml Microtubes

Color	Catalog No.	Quantity
Assorted	159501	500/cs
Natural	159500	500/cs
Blue	159494	500/cs
Green	159496	500/cs
Orange	159497	500/cs
Red	159493	500/cs
Violet	159498	500/cs
Yellow	159495	500/cs

0.6 ml Microtubes

Color	Catalog No.	Quantity
Assorted	158431	500/cs
Natural	193415	500/cs
Amber	193516	500/cs
Blue	193517	500/cs
Green	193518	500/cs
Orange	193519	500/cs
Red	193520	500/cs
Violet	193521	500/cs
Yellow	193522	500/cs

1.5 ml Microtubes

Color	Catalog No.	Quantity
Assorted	158438	500/cs
Natural	158797	500/cs
Amber	158798	500/cs
Blue	158800	500/cs
Green	158801	500/cs
Orange	158803	500/cs
Red	158799	500/cs
Violet	158804	500/cs
Yellow	158802	500/cs

2.0 ml Microtubes

Color	Catalog No.	Quantity
Assorted	158432	500/cs
Natural	193529	500/cs
Amber	193530	500/cs
Blue	193523	500/cs
Green	193524	500/cs
Orange	193525	500/cs
Red	193526	500/cs
Violet	193527	500/cs
Yellow	193528	500/cs

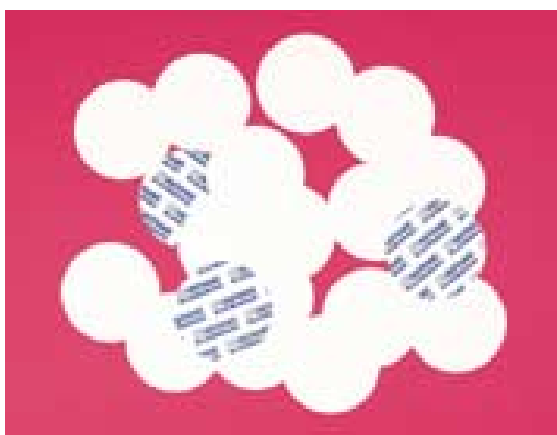


Labware

Biotrans™ Transfer Membranes

Transfer to Biotrans™ Today!

- Neutral or Positive charge
- High Sensitivity
- Low Background and Enhanced Resolution
- Multiple Hybridizations
- Rapid Wetting
- Forensic and Diagnostic Applications



Biotrans™ transfer membranes are used in research laboratories worldwide and have proven performance, exceeding all other membranes currently available. ICN offers three types of membranes- Biotrans™ Nylon 66, Biotrans (+)™ Nylon 66 and Biotrans™ PVDF. Each type of membrane features unique characteristics and distinct advantages. Hence, Biotrans™ membranes offer optimal performance for all transfer protocols.

Biotrans™ Nylon 66 membranes feature 50% amine and 50% carboxyl active surface groups. They are available in two pore sizes, 0.2 μm and 1.2 μm, supporting a variety of DNA, RNA and protein transfer methods. Since these membranes are manufactured under stringently controlled conditions, they produce predictable and consistent results from lot-to-lot, a distinct advantage over nitrocellulose membranes and DBM paper.

Biotrans(+)[™] Nylon 66 membranes feature a pore surface populated by a high density of quaternary ammonium groups. The resulting cationic membrane promotes strong ionic binding of negatively charged proteins and nucleic acids. Consequently, they are ideal for rapid transfer techniques. Additionally, the immediate immobilization characteristics of Biotrans(+)[™] membranes provides prolonged transfer procedures without risk of nucleic acid diffusion from the membrane. They are widely versatile and can be used for Northern, Southern and Western transfers, immobilization techniques, and plaque screening.

Biotrans™ PVDF (polyvinylidene difluoride) membranes are naturally hydrophobic. Hence, they are well suited for protein transfer and immobilization procedures. Immobilized proteins are immediately available for protein sequencing or amino acid analysis and easily visualized with common reagents such as biotin, coomassie blue, amido black, and ponceau S. Non-specific absorption can be blocked with both protein (casein, albumin, etc.) and non-protein (gelatin, ethanolamine, etc.) agents. The high protein binding capacity results in highly sensitive immunodetection (picogram to nanogram range). Finally, Biotrans™ PVDF membranes are resistant to most chemical solvents and will not shrink during destaining with methanol.

Biotrans™ Selection Table

PROCEDURE	Biotrans™ 0.2 μm	Biotrans™ 1.2 μm	Biotrans(+) [™] 0.45 μm	Biotrans™ PVDF 0.2 μm
Southern Transfer	++	+	+++	+
Improved Southern Transfer	++	+	+++	+
Non-Radioactive Detection	+	+	+++	+
³² P Detection	+	+	+++	+
Alkaline Transfer	+	+	+++	+
DNA Electro Transfer	++	+	+++	+
DNA Vacuum Transfer	++	+	+++	+
DNA Dot Blot	+++	+	+++	-
Serum Dot Blot	-	+++	-	-
Reverse Dot Blot	++	+	+++	-
Northern Transfer	++	+	+++	-
RNA Electro Transfer	+++	+	+++	-
RNA Vacuum Transfer	++	+	+++	-
RNA Dot Blot	+++	+	+++	-
Colony Lift	+	+++	+	-
Plaque Lift	+	+++	+	-
Replica Plating	+++	+	+	-
Direct Staining	-	-	-	+++
Immunochemical Transfer	++	+	+	+++
Western Transfer	++	+	++	+++
Protein Dot Blot	+++	++	++	++
Protein Sequencing	+	-	-	+++
ELISA	+++	++	+	+
Amino Acid Analysis	+	-	+	+++

Legend:

Highly Recommended	+++
Good	++
Fair	+
Poor	-

Biotrans™ Nylon Membranes

Neutral

*Higher resolution, lower background and easier handling than DBM paper
 Detects picogram levels of nucleic acids, femtograms by some methods
 30% more RNA retention
 Compatible with isotopic and biotin labels
 High tensile strength and superior solvent resistance
 Instant, spontaneous wetting characteristics and low flammability
 Meets pharmaceutical quality control standards
 1.2 µm pore size ideal for plaque and colony lifts
 0.2 µm pore size ideal for Northern, Southern and Western transfers*

Dimensions	Pore Size	Catalog No.	Quantity
82 mm diameter	1.2 µm	811820	25 discs
132 mm diameter	1.2 µm	811132	25 discs
137 mm diameter	1.2 µm	811137	25 discs
87 x 87 mm	1.2 µm	811870	25 sheets
222 x 222 mm	1.2 µm	811222	25 sheets
30 x 50 cm	1.2 µm	811305	25 sheets
30 cm x 3 m	1.2 µm	811300	1 roll
82 mm diameter	0.2 µm	810820	25 discs
132 mm diameter	0.2 µm	810132	25 discs
137 mm diameter	0.2 µm	810137	25 discs
87 x 87 mm	0.2 µm	810870	25 sheets
222 x 222 mm	0.2 µm	810222	25 sheets
30 x 50 cm	0.2 µm	810305	25 sheets
30 cm x 3 m	0.2 µm	810300	1 roll

Biotrans(+)TM Nylon Membranes

Strongly cationic

*Positive charge maintained over a pH range from 3 to 10
 Detects <0.1 picogram levels of specific DNA in genomic transfers
 Compatible with all isotopic and non-isotopic labels
 High tensile strength and superior solvent resistance
 Instant, spontaneous wetting characteristics and low flammability
 Meets pharmaceutical quality control standards
 Ideal for genomic Southern, Western and Alkaline transfers*

Dimensions	Pore Size	Catalog No.	Quantity
82 mm diameter	0.45 µm	810200	25 discs
132 mm diameter	0.45 µm	810201	25 discs
137 mm diameter	0.45 µm	810202	25 discs
87 x 87 mm	0.45 µm	810203	25 sheets
222 x 222 mm	0.45 µm	810206	25 sheets
30 x 50 cm	0.45 µm	810204	25 sheets
30 cm x 3 m	0.45 µm	810205	1 roll

Biotrans™ PVDF Membranes

Hydrophobic

*High protein binding capacity, retain 50-150 femtograms/cm²
 Easy handling
 Compatible with common blocking and labeling reagents
 High durability and tensile strength, will not crack, tear or curl if reprobod
 Resistant to most solvents and will not shrink from methanol destaining
 Can be directly inserted into analyzers and sequencers
 Excellent for chemiluminescence detection
 Meets pharmaceutical quality control standards
 Ideal for Western transfers, protein sequencing, amino acid analysis*

Dimensions	Pore Size	Catalog No.	Quantity
15 x 15 cm	0.2 µm	810301	5 sheets
20 x 20 cm	0.2 µm	810302	5 Sheets
24 cm x 3 m	0.2 µm	810303	1 roll

Cell Support Matrices

- Collagen Glass and Plastic Beads
- Variety of Bead Size and Density
- Collagen Films and Solutions
- Culture Plate Inserts
- Bone Wager Substrates
- Cell Shape Polymer Support

Certain cell types are characterized as anchorage-dependent in that they require attachment to a surface or solid support in order to grow and propagate efficiently. Typical examples of anchorage-dependent cells include epidermal cells, fibroblasts and chondrocytes. Supports for these cells that require a surface for attachment have been as simple as the culture vessel itself. Although, the vessel walls and bottom do not always afford optimum conditions. ICN Offers a series of solid support matrices specifically designed for culturing cells that require a support for growth. Included in this group of products are RapidCell™ micro-carrier beads, Cellagen™ purified collagen films, beads and solutions, and Cellform™, a unique cell-shape polymer support.

Cellform™ Polymer

A biocompatible polymer, Cellform™ (Poly[2-hydroxyethylmethacrylate]) is readily soluble in alcohol/water solutions. It is a non-adhesive cell culture coating that controls cell shape by diminishing substrate adhesiveness. More than 12 different cell conformations are possible, from spherical to flat. It is useful for the study of cell growth control and sensitivity to changes in shape and is also used for cell adherence studies and for analysis of relationships between cell spreading and cellular metabolism. In solution it produces a sterile, optically clear film for easy viewing.

	Catslog No.	Quantity
Cellform™ Polymer	150207	1 g 5 g

Cellagen™ Membranes

Pure Collagen Film
 Bovine Type I Collagen
 Permeable to Growth Factors
 Permeable to Macromolecules under 4kDa
 Co-Culturing for Cell-Cell Interactions Studies

	Catalog No.	Quantity
Cellagen™ Membranes	152299	1 Set

Cellagen™ Discs

- Transparent
- Permeable
- Cell-cell interaction studies
- In vitro research
- Versatile

Cellagen™ discs are available as two convenient sizes: 14 mm diameter for use in 24-well culture plates and 31 mm diameter for use in 6-well culture plates.

	Catalog No.	Quantity
Cellagen™ Discs for 24-Well Plates	152325	24/pk
	152316	48/pk
Cellagen™ Discs for 6-Well Plates	152326	24/pk
	152317	48/pk

Cellagen™ Beads

Cellagen™ Beads are prepared for bovine corium insoluble collagen by pepsin treatment. The collagen is then purified and formed into microsphere beads, approximately 100-400 nm. Since the Cellagen™ beads consist of collagen fibril, culture conditions greatly similar to those *in vivo* may be carried out. They have been used for the successful culturing of fibroblasts, epithelial cells, and osteoblasts. A protocol describing culture procedures is supplied with each order. They are made of 100% pure collagen, not just a collagen coated synthetic bead. Thus, no foreign substance or particle is introduced into the culture. A 15 ml size is approximately 3800 cm² (3 million beads).

	Catalog No.	Quantity
Cellagen™ Beads	152300	15 ml

Cellagen™ Sheets

Custom cut Cellagen™ membrane sheets to fit any shape or size culture container of choice. Each sheet is 9 cm x 10 cm x 35 µm.

	Catalog No.	Quantity
Cellagen™ Sheet	152399	1 each

Cellagen™ Solutions

Cellagen™ Solutions are highly purified, ready-to-use, pyrogen-free Type I collagen solutions prepared especially for tissue culture applications. They may be used for tissue culture applications. They may be used to prepare a collagen coating on plastic or glass culture dishes, or to prepare actual collagen gels for culture work. Cellagen™ solutions provide a convenient and efficient alternative for uniform coating of culture apparatus.

Type of Solution	Catalog No.	Quantity
Cellagen™ Solution PC-3	152391	25 ml
0.3% pepsin solubilized collagen solution, pH 3.0		100 ml
Cellagen™ Solution PC-5	152392	25 ml
0.5% pepsin solubilized collagen solution, pH 3.0		100 ml
Cellagen™ Solution AC-3	152393	25 ml
0.3% acid solubilized collagen solution, pH 3.0		100 ml
Cellagen™ Solution AC-5	152394	25 ml
0.5% acid solubilized collagen solution, pH 3.0		100 ml
Cellagen™ Solution T-IV	152395	5 ml
0.3% acid solubilized collagen solution, pH 3.0		25 ml
Cellagen™ Solution with EMEM	152396	20 ml
0.2% pepsin solubilized collagen/EMEM substrate, pH 7.4		
Cellagen™ Solution with Hanks'	152397	20 ml
0.2% pepsin solubilized collagen/Hanks' substrate, pH 7.4		
Cellagen™ Solution with DMEM	152398	20 ml
0.2% pepsin solubilized collagen/DMEM substrate, pH 7.4		

Cellagen™ Sponges

Cellagen™ sponges consist of uniquely developed collagen specially prepared for 3 dimensional cell culture investigation. The specially designed collagen structure allows cells to penetrate deep into the pores. Sponges can also be used for high density culture studies. Each package contains 5 sponges, 1 mm thick.

	Catalog No.	Quantity
Cellagen™ Sponge 35	158223	1 pkg
32 mm diameter sponge (fits 35 mm culture dish)		5 pkg
Cellagen™ Sponge 60	158224	1 pkg
48 mm diameter sponge (fits 60 mm culture dish)		
Cellagen™ Sponge 100	158225	1 pkg
83 mm diameter sponge (fits 100 mm culture dish)		

RapidCell™ Support Matrix

RapidCell™ is a specially treated, solid support matrix designed for culturing cells that require a foundation for growth. It provides rapid cell proliferation at minimal expense. Cells such as fibroblasts, epithelial cells and chondrocytes propagate quickly to confluency on RapidCell™.

Advantages -

- Promotes rapid cell growth
- Cells grow at higher densities
- Provides more secreted product per unit of area
- Increases harvest of viruses and cells per volume
- Eliminates trypsin treatment for serial passage of cell lines
- Improves cell viability because of less harsh treatment
- Controls cell splitting reducing overall culture expenses

RapidCell™ is supplied sterile with a complete, easy-to-follow protocol.

	Catalog No.	Quantity
RapidCell™	152298	100 g

RapidCell™ G

Specifications	Catalog No.	Quantity
90-150 µm, 1.02 g/cm ³	152435	5 g
		25 g
		100 g
150-210 µm, 1.02 g/cm ³	152436	5 g
		25 g
		100 g
150-210 µm 1.03 g/cm ³	152350	5 g
		25 g
		100 g

RapidCell™ P

Specifications	Catalog No.	Quantity
90-150 µm, 1.02 g/cm ³	152438	5 g
		25 g
		100 g
150-210 µm, 1.02 g/cm ³	152439	5 g
		25 g
		100 g
150-210 µm 1.03 g/cm ³	152351	5 g
		25 g
		100 g

RapidCell™ Microcarrier Beads

ICN originally introduced RapidCell™ as a unique solid support matrix to promote rapid growth, higher cell densities and greater harvesting of cells per volume. Our series of microcarrier beads include:

- RapidCell™ C - a collagen coated microcarrier bead.
- RapidCell™ G - a smooth-surface glass microcarrier bead.
- RapidCell™ P - a plastic microcarrier bead.

All RapidCell™ microcarrier beads can multiply cell production up to 3 times over conventional methods, while simultaneously reducing labor requirements. All types are autoclavable and RapidCell™ are reusable.

RapidCell™ C

Specifications	Catalog No.	Quantity
90-150 µm, 1.02 g/cm ³	152432	5 g
		25 g
		100 g
150-210 µm, 1.02 g/cm ³	152433	5 g
		25 g
		100 g
90-150 µm, 1.03 g/cm ³	152434	5 g
		25 g
		100 g