7X® Laboratory Detergents

The Laboratory Detergents Researchers Have Trusted For 40 Years!

- Safe and effective cleaning solutions.
- Environmentally friendly, phosphate-free formulations (ES and PF).
- Completely water soluble at ANY concentration.
- Completely drains from glassware in seconds.
- Powerful sequestering reagents for maximum performance.
- Ideal for cell and tissue culture labware.
- Excellent for general purpose lab use.
- Completely cleans glass and plastic labware.
- Automatic washer formulations available.

Available Exclusively From ICN!

7X® Laboratory Detergents remain unsurpassed as safe and effective cleaning agents for all laboratory instruments and supplies. For more than forty years, researchers have used and trusted 7X® Detergents for even the most sensitive experiments and results. They are available in a variety of formulations including phosphate-free and automatic washer forms with unmatched performance.

Biodegradable - ES 7X® (7X-PF in Europe) and ES 7X®-O-Matic (7X-PF O-Matic in Europe) are biodegradable through normal environmental action. Both are environmentally acceptable because they do not contain phosphate.

Solubility - All 7X® formulations are immediately and thoroughly soluble at any concentration without any agitation necessary. With other detergents, the precipitation of solids on cleaned surfaces remains a serious problem. With continued use of 7X® detergents, undissolved particles are eliminated and their re-deposition is prevented. Additionally, the O-Matic formulations for automated washers are true solutions, not mixtures. They will not separate, deteriorate, undergo reversion, undergo hydrolysis, or lose effectiveness even at temperatures to -10°C.

Drainage - For all formulations, 7X® will drain completely in seconds. Other detergents leave residue which can severely alter results or harm valuable equipment. 7X® will leave no residue which is highly beneficial even to the most critical experimental procedures.

Dispersion - 7X® contains powerful sequestering agents creating a powerful dispersing agent for solids in suspension, which along with deflocculation, is important in detergents for maximum performance. Materials may not be thoroughly removed unless they are reduced from agglomerates to individual particles and held in suspension so as to avoid their re-deposition on the surfaces being cleaned. Furthermore, the O-Matic formulations are powerful wetting agents allowing deep penetration to even the most minute crevices not accessible by ordinary cleaners.

pH - All formulations are compatible with alkalis (bases) and acids. The pH centers around near normal and varies only slightly with the concentration. Typically, the pH range of 7X® and ES 7X® as a 5% solution in distilled water is 6.0-9.0. For the O-Matic formulations, a 1% solution in distilled water has a pH range of 9.0-11.0.

Etching - Because of the neutrality of 7X®, delicate glassware is protected from etching, which leads to less weight loss and premature breakage.

Toxicity - Because no residue remains and all contaminants are completely eliminated, 7X® is preferred for all cell and tissue culture labware such as tubes, flasks, dishes, and plates where any level of contamination can interfere with the growth of cells and/or optimal results.

Composition - 7X® is a concentrated liquid made of anionic surface active agents and special solvents. Alkaline salts, like complex phosphates, have been added as builders. ES 7X® (7X PF) is similar in formulation but devoid of environmentally toxic phosphates. 7X® O-Matic is amber colored and highly concentrated containing a unique non-ionic surfactant coupled with a hydrotrope to complex phosphates stabilized and buffered for maximum efficiency. ES 7X® O-Matic (7x PF O-Matic) is very similar in formulation, but lacks any environmentally unfavorable, toxic phosphates.

Shelf-Life - Under normal storage conditions at room temperature, all formulations can be stored indefinitely.

Applications - All formulations have been developed for whenever absolute cleanliness is required. Test tubes, petri-dishes, flasks, cylinders, burettes, pipettes, slide covers, hypodermic needles, and all other laboratory glassware, plasticware, surgical equipment, and instruments may be effectively cleaned with 7X®. Whenever cleaning is of critical importance, 7X® is the detergent of choice.

Standard Formulations

Cat. No.	Description	Qty.
7667094	7X® Detergent	4x1 gal.
7667095		5 gal.
7667098		55 gal.
7667194	ES 7X® Detergent	4x1 gal.
7667195		5 gal.
7667198		55 gal.
7667125	7X* -PF Detergent	9x1 L
7667121		2x5 L
7667128		1x25 L
7667129		200 L

Automatic Washer Formulations

Cat. No.	Description	Qty.
7667494	7X®-O-Matic Detergent	4x1 gal.
7667495		5 gal.
7667498		55 gal.
7667594	ES 7X®-O-Matic Detergent	4x1 gal.
7667595		5 gal.
7667598		55 gal.
7667525	7X®-PF O-Matic Detergent	9x1 L
7667521	Detergent	2x5 L
7667528		1x25 L
7667529		200 L

7X® Accessory Components

Cat. No.	Description	Qty.
7663000	Meter-Mixer Control	1 each
9941431	1 Gallon Quick Serve Faucet	1 each
9312127	5 Gallon Spigot/Tap	1 each

Destaining Sponge

The ICN Destaining Sponge possess a high affinity for Coomassie* Brilliant Blue and quickly and efficiently attracts it. Used in destaining solution, it helps reduce destaining time and methanol use. Only one sponge per 10 x 10 x 0.1 cm gel placed in destaining solution sufficiently attracts CBB. One bag contains 50 sponges and the approximate size of each sponge is 5 x 5 cm.

Cat. No.	Description	Qty.
871030	Destaining Sponge	1 Bag

Duraseal™ Stretch Film

- Solvent Resistant
- Transparent
- Durable
- Resistant to Tearing
- Withstands Temperature to 100°C

Duraseal™ is a polyethylene-based film which has distinct advantages over traditional parafilm-based films. It does not soften at high temperatures, and it is easy-to-use and re-use. Additionally, it is suitable for numerous laboratory applications.

Duraseal™ Film

Cat. No.	Description	Qty.
159516	2" x 500 ft.	1 roll
159515	4" x 250 ft.	1 roll
159517	4" x 500 ft.	1 roll
159518	8" x 250 ft.	1 roll
159519	Duraspenser™	1 each

CATALOG NUMBER

BLUE-COTTON

Blue-Cotton is a tri-sulfonated copper-phthalocyanine covalently linked to cellulose. It is able to adsorb mutagens, including polycyclic aromatic hydrocarbons, heterocyclic amines, polycyclic antibiotics, dyes, and other condensed aromatic compounds having more than three fused rings. Adsorption takes place in aqueous solution, and mutagenic activity is assayed by the Ames Test. Blue-cotton is pre-packaged in 5 gm aluminum coated polyethylene pouches.

Ref.: Hayatsu, H., et al., Mutation Research, **119**, 233 (1983).

800676 5 g
800677 5 x 5 g

BLUE RAYON

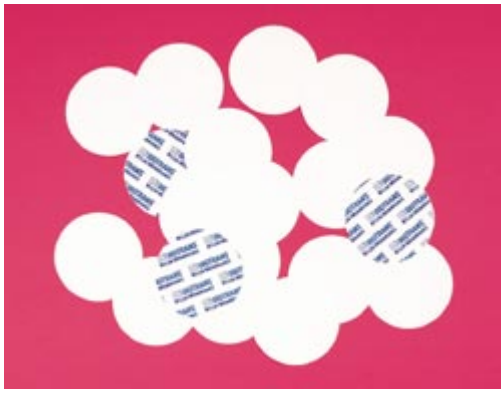
A Copper-phthalocyanine covalently linked compound with high affinity for mutagens and ethidium bromide. Contains approx. 30 µmoles/gm of copper-phthalocyanine compared to 10 µmoles/gm in Blue Cotton. Effective for removing ethidium bromide from DNA-ethidium bromide mixtures. Also quickly removes mutagens such as heterocyclic amines, polycyclic aromatic hydrocarbons, polycyclic antibiotics, dyes.

808687 5 g
808688 5 x 5 g

Biotrans™ Nylon Transfer Membranes

For Western, Northern, and Southern Transfers, Colony and Plaque Screening, and other immobilization techniques!

- Neutral
- High Sensitivity
- Low Background
- Enhanced Resolution
- Multiple Hybridizations
- Rapid Wetting
- Forensic Applications
- Diagnostic Applications



Transfer to Biotrans™ Today

Biotrans™ Nylon Transfer Membranes have been widely used in research laboratories for many years and are proven to exceed most other commercially available membranes. They are supported Nylon 66 membranes for use in DNA, RNA and protein transfers.

These surface controlled nylon membranes offer significant advantages over conventional media such as nitrocellulose and diazobenzyloxymethyl (DBM) paper. They possess 50% amine and 50% carboxyl active surface groups and are available in two pore sizes, 0.2 and 1.2 micrometers, for specific applications. Biotrans™ is manufactured under stringently controlled conditions in order to achieve an absolutely rated pore size. This assures that the absorptive area per unit surface area will be predictable and reproducible from lot to lot.

Biotrans™ is comparable to DBM paper in sensitivity, and it provides higher resolution, lower background and greater ease of handling. They can be used to detect picogram quantities of nucleic acids. Even femtograms of hybridizable DNA have been detected using the Church and Gilbert method. RNA retention is about 30% more effective with Biotrans™ than with any other membrane. Furthermore, this increased retention of nucleic acids is strong throughout a wide range of fragment sizes. These membranes can also be diazotized for the covalent attachment of nucleic acids, and they can be used with both radioisotopic and biotin labeled reagents. Repeated hybridization's will not damage Biotrans™.

Physical and Chemical Properties

High Tensile Strength - These membranes are very durable. They are not brittle; They will not tear or rip.

Dimensional Stability - Less than 0.3% expansion on first exposure to water with no further expansion with subsequent exposure. Less than 0.3% contraction on drying. Samples may be preserved indefinitely, wet or dry.

Low Flammability - The membranes of this series are unaffected by extended exposures to temperatures up to 110°C in air. They will not ignite at temperatures below approximately 200°C, burn slowly if ignited, and cannot detonate.

Superior Solvent Resistance - These membranes are not affected by acetone, alcohols, chlorinated aliphatic hydrocarbons, formamide, 2M NaOH, DMSO, DMF, and most other solvents commonly used in biological laboratories. The principal exceptions are concentrated formic acid (> 50%), HCl (> 4M), oxidizing acids, and prolonged (days to weeks) exposure to pH < 2.0.

Intrinsic Hydrophility - Biotrans™ membranes are spontaneously wetted by water. They contain no surfactants or other additives. Neither detergent, solvent, pre-wetting, nor boiling is necessary to achieve complete and instant wetting

Low Extractables - These membranes must pass pharmaceutical quality control tests, and have very low and constant contents of extractable material in all of the solvents aforementioned.

Biotrans™ Nylon Membranes

Pore Size: 1.2µm

Neutral

Applications: Plaque and Colony Lifts

Cat. No.	Description	Quantity.
811820	82 mm Diameter	25 discs
811132	132 mm Diameter	25 discs
811137	137 mm Diameter	25 discs
811870	87x87 mm Sheet	25 each
811222	222x222 mm Sheet	5 each
811305	30x50 cm Sheet	5 each
811300	30 cm x 3 m Roll	1 each

Biotrans™ Nylon Membranes

Pore Size: 0.2 µm

Neutral

Applications: Northern, Southern, Western, and Dot Blots.

Cat. No.	Description	Quantity.
810820	82 mm Diameter	25 discs
810132	132 mm Diameter	25 discs
810137	137 mm Diameter	25 discs
810870	87x87 mm Sheet	25 each
810222	222x222 mm Sheet	5 each
810305	30x50 cm Sheet	5 each
810300	30 cm x 3 m Roll	1 each

Biotrans(+)™ Nylon Transfer Membranes

A Positive Development in Northern Blotting!

- Positive Charge
- Alkaline Transfer of DNA
- Rapid High Salt Transfer of DNA and RNA
- Electrotransfer of DNA, RNA, and Protein
- Vacuum Transfer of DNA and RNA
- Chemiluminescence Detection
- DNA Fingerprinting and Paternity Testing

Biotrans(+)™ membranes feature a pore surface populated by high density of quaternary ammonium groups making it strongly cationic. The positive charge is maintained in a pH range of 3 to 10 and promotes strong ionic binding of negatively charged proteins and nucleic acids. Biotrans(+)™ membranes are ideal for rapid transfer techniques for nucleic acids which provide excellent levels of sensitivity. In addition, the immediate immobilization characteristics of the membrane allow for prolonged transfer procedures without the risk of nucleic acid diffusion from the membrane.

Biotrans(+)™ is exceptionally versatile and can be employed in a wide range of techniques. It is especially recommended for DNA alkaline transfers, vacuum transfers, DNA, RNA, protein electrotransfers, and DNA/RNA rapid high salt transfers. In alkaline transfers, DNA binds to Biotrans(+)™ without baking or ultraviolet irradiation. Optimum fixation of DNA after the ICN Improved Procedure for high salt transfer is achieved by baking while efficient fixation of RNA requires ultraviolet irradiation. Biotrans(+)™ can detect less than 1 picogram of specific DNA in a genomic Southern Transfer either by standard radioactive or newer non-radioactive, like the Aurora™ Chemiluminescent Southern Blot, detection systems.

In addition, Biotrans(+)™ demonstrates excellent performance in DNA fingerprinting procedures that employ Southern Blot Hybridization techniques. Several major U.S. laboratories use 0.45 µm Biotrans(+)™ membranes due to the 2-3 fold increased sensitivity and very low background when compared to other membranes used. Furthermore, Biotrans(+)™ is becoming increasingly popular in paternity testing as the membrane of choice.

Biotrans(+)™ Transfer Membranes

Pore Size: 0.45 µm

Positive Charge

Applications: Alkaline, Western, and Improved Southern Transfers

Cat. No.	Description	Qty.
810200	82 mm Diameter	25 discs
810201	132 mm Diameter	25 discs
810202	137 mm Diameter	25 discs
810203	87x87 mm Sheet	25 each
810204	30x50 cm Sheet	5 each
810206	222x222 mm Sheet	5 each
810205	30 cm x 3 m Roll	1 each

Biotrans™ PVDF Transfer Membranes

For Western Blots, Protein Binding Assays, Amino Acid Analysis, and Protein Sequencing!

- Electrotransfer of DNA, RNA, and Proteins
- Vacuum Transfer of DNA and RNA
- Chemiluminescent Detection
- DNA Fingerprinting
- For Optimal Western Blots
- Immunodetection in the Picogram Range
- Resistant to Tearing, Cracking, and Curling

Biotrans™ PVDF membranes are naturally hydrophobic polyvinylidene difluoride membranes for use in protein transfer and immobilization procedures. They are pure white, microporous solid phase supports which undergo strong hydrophobic interactions with a wide range of proteins. Immobilized proteins can be used directly for protein sequencing or amino acid analysis, and can be visually detected with all common staining reagents including coomassie blue, amido black, ponceau S, and colloidal gold.

Performance and Properties

High Binding Capacity - The highly porous structure of Biotrans™ PVDF membranes (0.2 µm) provides a high surface area for strong hydrophobic interaction with many proteins. For large globular proteins, Biotrans™ PVDF membranes retain 50-150 femtograms/cm^2, while with smaller peptides even higher levels of binding can be achieved.

Ease-Of-Use - The chemical structure of Biotrans™ PVDF membranes allows convenient use of common laboratory reagents. Non-specific adsorption can be "blocked" with both proteinaceous and non-proteinaceous agents. Additionally, common staining reagents including coomassie* blue, amido black, ponceau S, colloidal gold, as well as, biotinylation reagents can be used to visualize bound proteins. Biotrans™ PVDF membranes also allow highly sensitive immunodetection to the picogram-nanogram range.

Mechanical Durability - Biotrans™ PVDF membranes have high tensile strength and will not tear, crack, or curl during handling. This allows for convenient re-probing in Western Transfers, and easy removal of target bands in Amino Acid Analysis and Protein Sequencing applications.

Chemical Compatibility - Biotrans™ PVDF membranes are resistant to a wide range of chemical solvents and will not shrink during destaining with methanol. In addition, resistance to trifluoroacetic acid and triethylamine allows direct insertion of Biotrans™ PVDF membranes into amino acid analyzers and gas phase protein sequencing equipment.

Biotrans™ PVDF Transfer Membranes

Pore Size: 0.2 µm

Hydrophobic

Applications: Western Transfers, Chemiluminescent Detection, Protein Sequencing, Amino Acid Analysis, and Solid Phase Assay Systems.

Cat. No.	Description	Qty.
810301	15x15 cm Sheet	5 each
810302	20x20 cm Sheet	5 each
810303	24 cm x 3 m Roll	1 each

Raymax™ Autoradiography Film

***RayMax*™ Universal –** a double coated, multi-purpose film for general autoradiography and fluorography offering high resolution results at economical prices. The film consists of a clear plastic base coated on both sides with a photographic emulsion. The emulsion is coated with a protective anti-scratch layer.

***RayMax*™ Tritium –** a specialized single coated film without an anti-scratch layer for direct autoradiography of tritium or ^{125}I.

***RayMax*™ Beta -** a single coated, high silver content film for high resolution direct autoradiography of ^{125}I, ^{33}P, ^{35}S or ^{14}C.

Raymax Universal

Cat. No.	Description	Qty.
821722	18 x 24 cm	25 sheets
821723	18 x 43 cm	25 sheets
821724	24 x 30 cm	25 sheets
821725	30 x 40 cm	25 sheets
821726	35 x 43 cm	25 sheets
821727	5 x 7 in	25 sheets
821728	8 x 10 in	25 sheets
821729	18 x 24 cm	75 sheets
821730	35 x 43 cm	75 sheets
821731	8 x 10 in	75 sheets
821732	18 x 24 cm	50 envelopes
821733	35 x 43 cm	50 envelopes
821734	8 x 10 in	50 envelopes

Raymax Beta

Cat. No.	Description	Qty.
821716	18 x 24 cm	25 sheets
821717	18 x 43 cm	25 sheets
821718	24 x 30 cm	25 sheets
821719	30 x 40 cm	25 sheets
821720	35 x 43 cm	25 sheets

Raymax Tritium

Cat. No.	Description	Qty.
821711	18 x 24 cm	10 sheets
821715	24 x 30 cm	10 sheets

Hand-Held Testers and Meters

The ICN Oakton® pHTestrs and pH Wand® are perfect for easy, accurate pH measurements in the lab, plant, or field. All pHTestrs have more useful features than any other pocket-sized pH testers.

Features Include:

- Microprocessor-Based Functions
- Fast, Stable, and Reproducible Results
- Easy, Push-Button Calibration
- Self-Diagnostic Error Messages
- Automatic Buffer Recognition
- Auto-Off Function
- Large, Easy-To-Read LCD Display
- HOLD Function
- Durable Construction
- Sturdy Pocket Clip
- Battery Operated

pHTestr 1, 2, 3, BNC and pH Wand®

The ICN Oakton® pHTestr 1 and pHTestr 2 are the perfect tools for quick, routine pH testing. With fast single point calibration, the pHTestr 1 is remarkably consistent in its ±0.2 pH accuracy throughout its entire range. The pHTestr 2, with multi-point calibration capability and **A**utomatic **T**emperature **C**ontrol (ATC), delivers fast ±0.1 pH accuracy even under varying temperature conditions.

The ICN Oakton® pHTestr 3 is the world's first pocket sized microprocessor-based instrument to provide ±0.01 pH resolution and ±0.02 pH accuracy. It is the best available combination of features, high performance for professional results, and low cost. Its multi-point push-button calibration capability with automatic buffer recognition and ATC deliver maximum accuracy even under varying temperature conditions.

Use the ICN Oakton® pHTestr BNC with many different types of electrodes, including ones you are already using. The detachable BNC electrode connection makes this tester suitable for a broad range of applications, even highly specialized ones. Just select the pH electrode best suited to your needs, connect it to the pHTestr BNC, calibrate and read - It's that EASY! Use direct connect electrodes for one-handed use or electrodes with cables for hard to reach places.

The ICN Oakton® pH Wand® is the world's most versatile ±0.01 pH accuracy pocket-sized pH tester with detachable, replaceable electrodes. This accuracy combined with the convenience and flexibility of detachable, replaceable electrodes makes the pH Wand® perfect for precise readings in most applications. Choose from a variety of direct connect electrodes or 3 foot cabled electrodes on facing page. All pH Wand® electrodes contain a built-in temperature sensor t allow ATC to compensate for all temperature variations.

pHTestrs and Wand®

Cat. No.	Description	Qty.
159481	pHTestr 1	1 each
159482	pHTestr 2	1 each
159487	pHTestr 3	1 each
159486	pHTestr BNC	1 each
160086	pH Wand®	1 each

Please inquire on electrode availability

Waterproof pHTesters

The world's first waterproof and dust-proof pH testers that float!

- Replaceable Electrode
- Push-Button HOLD Function
- pH Calibration Buffer Recognition
- Self-Diagnostic Error Message Indicator
- Automatic Shut-Off

Accessories

Never again lose a pH tester by watching it sink to the bottom of your tank, pool, or pond. The ICN Oakton® waterproof pHTestrs 1 and 2 float so you can retrieve them. Never again wonder whether a pH instrument is truly waterproof. These pH testers can be certified to meet IP67 ratings for dustproof and waterproof ingress protection. As an added bonus, the ICN Oakton® waterproof pHTestrs have replaceable electrodes. With the replacement electrode costing a fraction of the whole unit, the pHTestr 1 and 2 over time are the most economical hand-held battery operated testers available.

Waterproof pH Testers

Cat. No.	Description	Qty.
160126	pHTestr 1	1 each
160127	pHTestr 2	2 each
160128	pHTestr 1 Rep. Electrode	1 each
160129	pHTestr 2 Rep. Electrode	1 each

TDSTestr Series

- ±2% Full Scale Accuracy
- Automatic Temperature Control (ATC)
- Large, Easy-To-Read LCD Display

Choose from our standard economical TDSTestr series or our new microprocessor-based TDSTestr 10 and 20 with dual ranges- They are like two testers in one!

The ICN Oakton® TDSTestr 10 and 20 are the world's first microprocessor-based, dual-range testers for conductivity and TDS measurement. The TDSTestr 10 reads 0-1990 ppm with 10 ppm resolution, and 2.00-10.00 ppt with 0.10 ppt resolution. The TDSTestr 20 reads 0-1990 µS with 10 µS resolution and 2.00-19.00 mS with 0.10 mS resolution. Because they are microprocessor-based, they offer easy push-button calibration- no need for trimpot adjustment with screwdrivers. Both testers feature Auto-Ranging, Automatic Shut-Off, HOLD function, and Self-Diagnostic Error Message.

The ICN Oakton® TDSTestr series offers the convenience of Full Scale Readout on the display, eliminating the need for multiplying the displayed reading to obtain the actual test values. This practical feature saves time and eliminates error. For little more than the price of a water hardness test kit, you can have a digital test instrument that will outlast a test kit many times over. These four testers read directly in ppm or ppt for total dissolved solids, or in micromohos (µS) or millimhos (mS) for conductivity. Also, once these testers are calibrated, the ATC feature automatically compensates for conductivity changes due to changes in temperature.

TDSTestrs

Cat. No.	Description	Qty.
159483	TDSTestr 1	1 each
159525	TDSTestr 2	1 each
159526	TDSTestr 3	1 each
159527	TDSTestr 4	1 each
160138	TDSTestr 10	1 each
160139	TDSTestr 20	1 each

Accessories

TempTestr®

- Selectable Scale in °F or °C
- High Accuracy
- Fast Plug-In Probe Attachment
- Push-Button Calibration

Measure temperature from -20°C to 220°C quickly and accurately with the ICN Oakton® TempTestr®. Factory calibrated, use the push-button keypad for fine adjustment. Included is a detachable plug-in 304 SS temperature probe.

Fluoride Ion Testr

- Simple Push-Button Calibration and Operation
- Direct Readings- no multiplication or Tables necessary!
- ±0.05 ppm Accuracy in and out of the Lab
- Dual Range: 0.20 to 3.99 ppm and 4.0 to 20.0 ppm

The NEW ICN Oakton® Fluoride Ion Testr is small enough to go anywhere and capable of directly measuring fluoride ion concentration. It uses fluoride standards and test methods in accordance with ASTM recommendations for measuring fluoride in drinking, surface, saline, and domestic and industrial waste. It is even useful for fluoride gas trap testing and water treatment in metal finishing operations. Calibrate with 0.50 ppm, 1.00 ppm, 2.00 ppm standards. Fluoride electrode sold separately below must be used with the ICN Oakton® Fluoride Ion Testr. Do Not Substitute.

Cat. No.	Description	Qty.
159485	TempTestr	1 each
160162	Fluoride Ion Testr	1 each
160163	Fluoride Ion Electrode	1 each

Scintillation Vials

- Polypropylene
- Two Cap Styles
- Versatile
- Two Cap Colors
- Volume: 5 ml

Scintillation Vials

Cat. No.	Description	Qty.
159513	Scintillation Vial w/o stopper	1000/cs
159514	Short White Vial Stopper	1000/cs
195595	Short Yellow Vial Stopper	1000/cs
195597	Tall White Vial Stopper	1000/cs
195596	Tall Yellow Vial Stopper	1000/cs

Scintillation Vial Stoppers

Cat. No.	Description	Qty.
159511	Vial w/Tall White Stopper	1000/cs
159541	Vial w/Tall Yellow Stopper	1000/cs
159512	Vial w/Short White Stopper	1000/cs
159540	Vial w/Short Yellow Stopper	1000/cs

Microcentrifuge Tubes

Linbro® Amber Microtubes

For Light Sensitive Samples!

- Protects Precious Sensitive Cells
- Frosted Writing Area
- Free-Standing or Conical
- Screw Cap with or without O-ring
- Virgin Polystyrene Construction

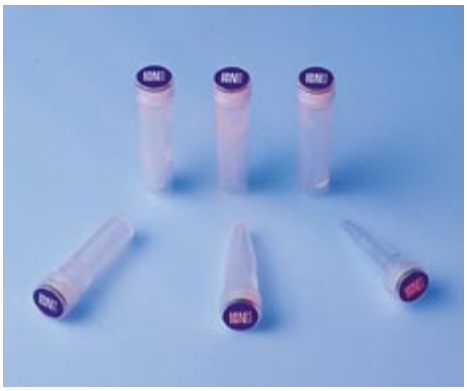
ICN's Linbro® microcentrifuge tubes offer greater flexibility and convenience for all molecular and cell biology applications. Where samples need protection from light, Linbro® Amber Tubes are the optimal choice. Linbro® Rainbow Tubes are ideal when numerous samples require detailed organization and tracking. All ICN microcentrifuge tubes are manufactured from top quality polystyrene or polyproplyene.

Linbro® Amber Tubes

Cat. No.	Description	Qty.
158423	0.5 ml Conical Tube	500/cs
158424	1.5 ml Conical Tube	500/cs
158425	2.0 ml Conical Tube	500/cs
158426	0.5 ml Free-Standing Tube	500/cs
158427	1.5 ml Free-Standing Tube	500/cs
158428	2.0 ml Free-Standing Tube	500/cs
158429	Screw Cap without O-ring	500/cs
158430	Screw Cap with O-ring	500/cs

Linbro® Natural Microtubes

- Clear, Virgin Polypropylene Construction
- Free-Standing or Conical
- Frosted Writing Area
- Screw Cap with O-ring



Linbro® Natural Tubes

Cat. No.	Description	Qty.
158439	0.5 ml Conical Tube	500/cs
158440	1.5 ml Conical Tube	500/cs
158441	2.0 ml Conical Tube	500/cs
158442	0.5 ml Free-Standing Tube	500/cs
158443	1.5 ml Free-Standing Tube	500/cs
158444	2.0 ml Free-Standing Tube	500/cs

Linbro® *Rainbow* Strip Microtubes

- Rainbow Assortment of Colors
- Optically Clear
- Virgin Polypropylene Construction
- Ideal for DNA Amplification Techniques

Linbro® *Rainbow* Strip Microtube, 0.2 ml

Cat. No.	Description	Qty.
159510	Assorted Colors	480/cs
159509	Natural	480/cs
159503	Blue	480/cs
159505	Green	480/cs
159506	Orange	480/cs
159502	Red	480/cs
159507	Violet	480/cs
159504	Yellow	480/cs

Linbro® *Rainbow* Strip Microtube Caps

Cat. No.	Description	Qty.
159534	Assorted Colors	480/cs
159535	Natural	480/cs
159537	Blue	480/cs
159538	Green	480/cs
159539	Orange	480/cs
159542	Red	480/cs
159543	Violet	480/cs
159544	Yellow	480/cs

Linbro® *Rainbow* Microtubes

- Multicolored Snap-Top Tubes
- Reference Lines for Easy Volume Estimation
- Frosted Writing Area
- Clear, Virgin Polypropylene

Linbro® *Rainbow* Microtube, 0.2 ml

Cat. No.	Description	Qty.
159501	Assorted Colors	500/cs
159500	Natural	500/cs
159494	Blue	500/cs
159496	Green	500/cs
159497	Orange	500/cs
159493	Red	500/cs
159498	Violet	500/cs
159495	Yellow	500/cs

Linbro® *Rainbow* Microtube, 0.6 ml

Cat. No.	Description	Qty.
158431	Assorted Colors	500/cs
193415	Natural	500/cs
193516	Amber	500/cs
193517	Blue	500/cs
193518	Green	500/cs
193519	Orange	500/cs
193520	Red	500/cs
193521	Violet	500/cs
193522	Yellow	500/cs

Linbro® *Rainbow* Microtube, 1.5 ml

Cat. No.	Description	Qty.
158438	Assorted Colors	500/cs
158797	Natural	500/cs
158798	Amber	500/cs
158800	Blue	500/cs
158801	Green	500/cs
158803	Orange	500/cs
158799	Red	500/cs
158804	Violet	500/cs
158802	Yellow	500/cs

Linbro® *Rainbow* Microtube, 2.0 ml

Cat. No.	Description	Qty.
158432	Assorted Colors	500/cs
193529	Natural	500/cs
193530	Amber	500/cs
193523	Blue	500/cs
193524	Green	500/cs
193525	Orange	500/cs
193526	Red	500/cs
193527	Violet	500/cs
193528	Yellow	500/cs