

Merck Millipore
Bioscience



Analytical Sample Preparation

Key Products

Millex Syringe Filters

Non-sterile filters with variable pore size ideal for filtration for aqueous & organic solvents, low-extractable filters for clarification or fine particulate removal prior to instrument analysis



HPF Millex® Syringe Filters

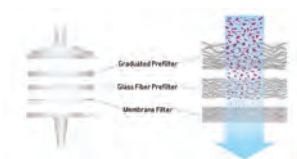
Clarification of particle-laden solutions prior to instrument analysis

IC Millex Filter Units

A low extractable filter specially designed for ion chromatography

Simplicity™

Vacuum driven sample preparation device providing an easy, high-throughput alternative to syringe-tip filters for sample preparation



Buffer Filtration Kit

Easy source for vacuum filtration of liquids for critical applications like preparation of tablet dissolution buffer & media, isotonic buffer and clarification of large volume chromatographic buffers



Strat-M™

Synthetic, non-animal based model for transdermal diffusion testing that is predictive of diffusion in human skin

ZHE™

Suitable apparatus for Toxicity Characteristic Leaching Procedure for determining the characteristic of solid wastes

Patch Test

Monitors particulate contamination rapidly in hydrocarbon-based hydraulic fluids, bulk chemicals, boiler water and lubricating oils



Fluid Contamination Kit

ASTM certified devices that match standard method for contamination analysis

SDI Kit (Silt Density Index) or Fouling Index Test Kit

Used for measuring Silt Density Index in feed water

ZipTip Pipette Tips

Ideal for concentrating and purifying samples for sensitive analyses such as MALDI-ToF MS



Research Tools

Key Products

Cell Culture

- **Sterile Filtration Devices :**
Stericup®, Steriflip® & Sterile Millex®
- **For Stem Cell :**
STEMCCA™
Reprogramming kits,
ESGRO® Stem Cell
Medium, PluriStem™ ES
Cells, EmbryoMax®
Reagents & Media
- **Millicell® :**
High Yield (HY) Flasks,
EZ SLIDES, Inserts,
Cultureware & Multiwell
plates



Protein Sample Preparation

- **Protein Extraction :**
BugBuster™, Cytobuster™
Benzonase® Nuclease &
Protease Inhibitor
Cocktails
- **Proteomics :**
PureProteome™
Magnetic Beads,
Recombinant Fusion Tags,
Protease Cleavage
Enzymes, Amicon® Pro
Purification System,
Amicon® Ultra filters,
D-Tubes™ Dialyzers



Research Tools

- **Antibodies**
- **Small Molecules**
- **Biochemicals**
- **ELISA Kits**
- **Assay Kits**



Immunodetection & Western Blotting

- **Antibodies**
- **Immobilon® Membranes**
- **Blotting Reagents**
- **Luminata™ Detection Reagents**
- **ReBlot™ Reagent**
- **OmniPur® Buffers & Detergents**
- **SNAP I.d.® 2.0 for WB & IHC**



Analytical Filtration

Millex[®] Syringe Filters

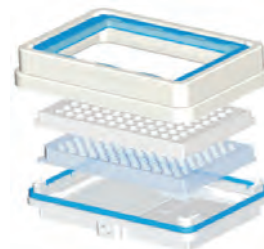
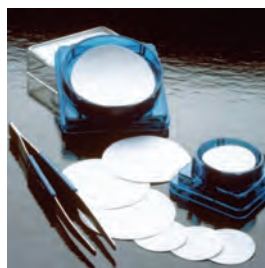
- For sample preparation prior to analysis (HPLC, UPLC, Mass Spec. etc.)
- Membranes : PES, Nylon, PVDF, PTFE, Hydrophilic PTFE (Universal membrane), Cellulose Esters, Glass fibre, etc.
- Diameters : 4 mm, 13 mm, 25 mm, 33 mm and 50 mm
- Pore sizes : 0.22 μm to 5 μm
- Millex[®] HPF syringe filter with pre-filter for solutions that are difficult to filter

Membrane filters, filtration supports & accessories

- To sample, separate & eliminate contaminants from air or liquid samples
- Membranes : PES, PVDF, PTFE, Hydrophilic PTFE (Universal membrane), Nylon, Cellulose esters, Polycarbonate, Glass fiber, Polypropylene, Quartz, etc.
- Diameters : 13 mm, 25 mm, 47 mm, 90 mm, 142 mm
- Wide range of Pore sizes

Process optimisation

- Somplicity[®] system for simultaneous sample preparation
- Multiscreen[®] plates for Multiwell filtration



Cell Biology

Sterile filtration : Numerous formats

- Stericup®, Steritop®, Steriflip®, Sterile Millex® : PES fast flow membranes, PVDF with low protein binding

Millicell® Cell Culture supports

- Membrane culture : Insert plates with a large surface area, hanging & standing cell culture inserts, multiwell plates
- Culture chamber on EZ SLIDE glass slide, HY (high-yield) multilayer culture flasks

Counting, Analysis

- Scepter™ 2.0, employs the Coulter Principle - compact, accurate & fast for cells between 3 to 36 µm
- ONIX CellASIC™ : Enables live cell imaging with microfluidic technology for dynamic control of cell culture micro-environment

Additives, Reagents for Cell Culture

- Antibiotics, Antibodies, Inhibitors & Transfection Reagents



Protein Purification

Extraction

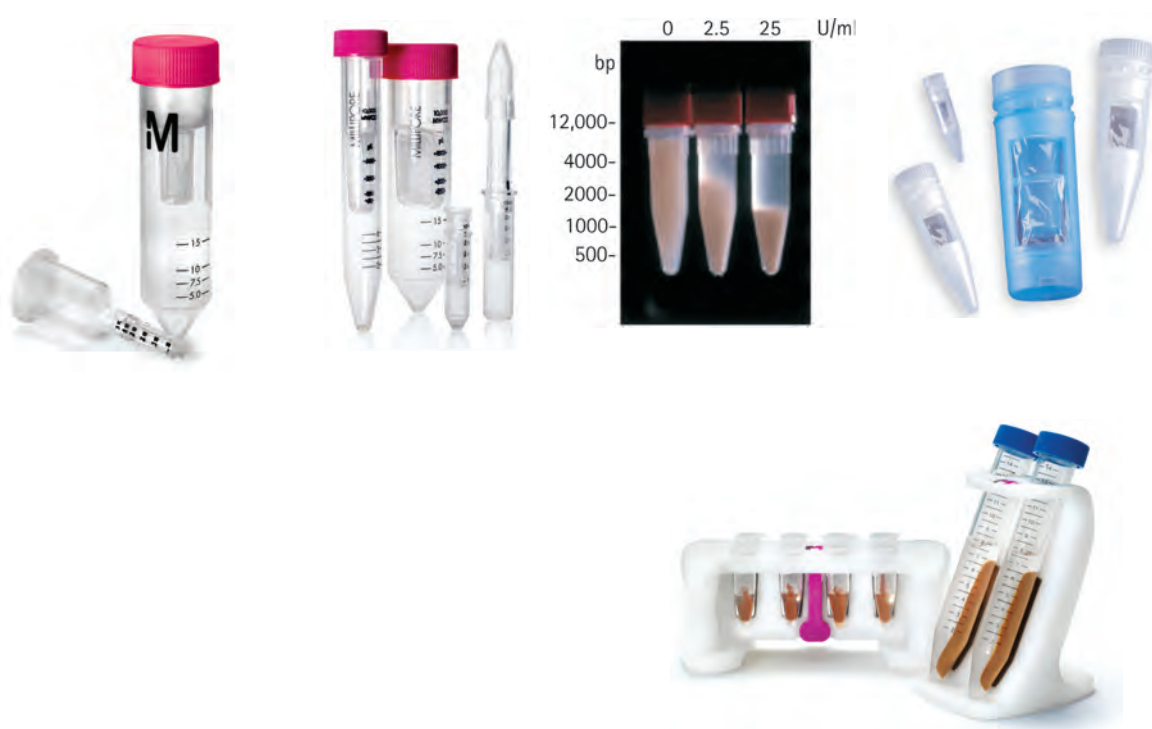
- Optimized kits for extraction of proteins from Bacteria (BugBuster®), Yeast (YeastBuster®), Insects or Mammalian Cells (CytoBuster®)
- Additives for lysis with Rlysozyme™ & elimination of nucleic acids with Benzonase®
- Protease, Phosphatase Inhibitor Cocktail Sets

Fractionation

- ProteoExtract® kits, S-PEK subcellular, M-PEK membrane kits

Concentration / Purification / Affinity Chromatography / Dialysis

- Amicon® Ultra : Numerous formats & Cut-offs, can be used for diafiltration
- PureProeome™ : Immunoprecipitation & purification using magnetic beads
- Amicon® Pro : Disposable device for affinity purification, concentration & diafiltration
- D-Tube™ : Facilitates dialysis, volumes of 10 µL to 20 mL



Immunodetection & Western Blotting

Transfer membranes

- Immobilon® - P 0.45 µm pre-cut or in rolls
- Immobilon® - P⁵⁰ 0.22 µm for the transfer of proteins < 20 KD
- Immobilon® - FL : Single membrane without autofluorescence

Protein-free blotting reagents

- Bløk® - CH for chemiluminescence
- Bløk® - FI for fluorescence
- Bløk® - PO for phosphoprotein detection

Antibody incubation

- > 10,000 primary & secondary antibodies, validated & guaranteed
- SNAP i.d.® 2.0 system to optimize antibody incubation in 30 min
- SignalBoost™ : To improve low-intensity signals

Luminata™ detection reagents

- Pre-mixed & ready-to-use reagents with a long shelf life
- Luminata™ Classico, Crescendo & Forte substrates cover a broad range of sensitivities
- Long lasting signals

ReBlot™ dehybridization reagent

- β-mercaptoethanol-free reagent, effective & fast, available in mild & strong concentrations

OmniPur® buffers, detergents & powders

- PBS, Glycine, Tris, Acrylamide, Tween, Heps, etc.



Instruments & Reagents for Analysis

Cell Analysis / Cytometry & Imaging

- Equipment & Kits for Muse®, Guava® & Amnis® system



Protein Analysis / Multiplexing & Quantification

- ELISA Kits, MILLIPLEX® Kits



- MAGPIX®, Luminex 200®, FlexMAP 3D® Equipment



We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

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