

Protein Xtra

Protein Workflow Simplified

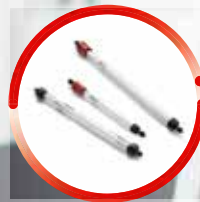
Isolation
& Cloning



Sample
Prep



Purification



Analysis



For each step of your research, GE provides reliable solutions for your protein work.

Did you know that all of our illustra™ Ready-To-Go™ range are stored at room temperature – No refrigeration required.

When selecting a Vivaspin® concentrator, divide your target protein molecular weight by a factor of 3 to 5 to retain your protein above the membrane.

We recommend to prevent clogging of your chromatography columns you use our Whatman™ GD/X syringe filters for difficult-to-filter samples.

When choosing a Western Blotting Membrane, choose 0.2um for blotting of proteins with a molecular weight less than <20,000kda.

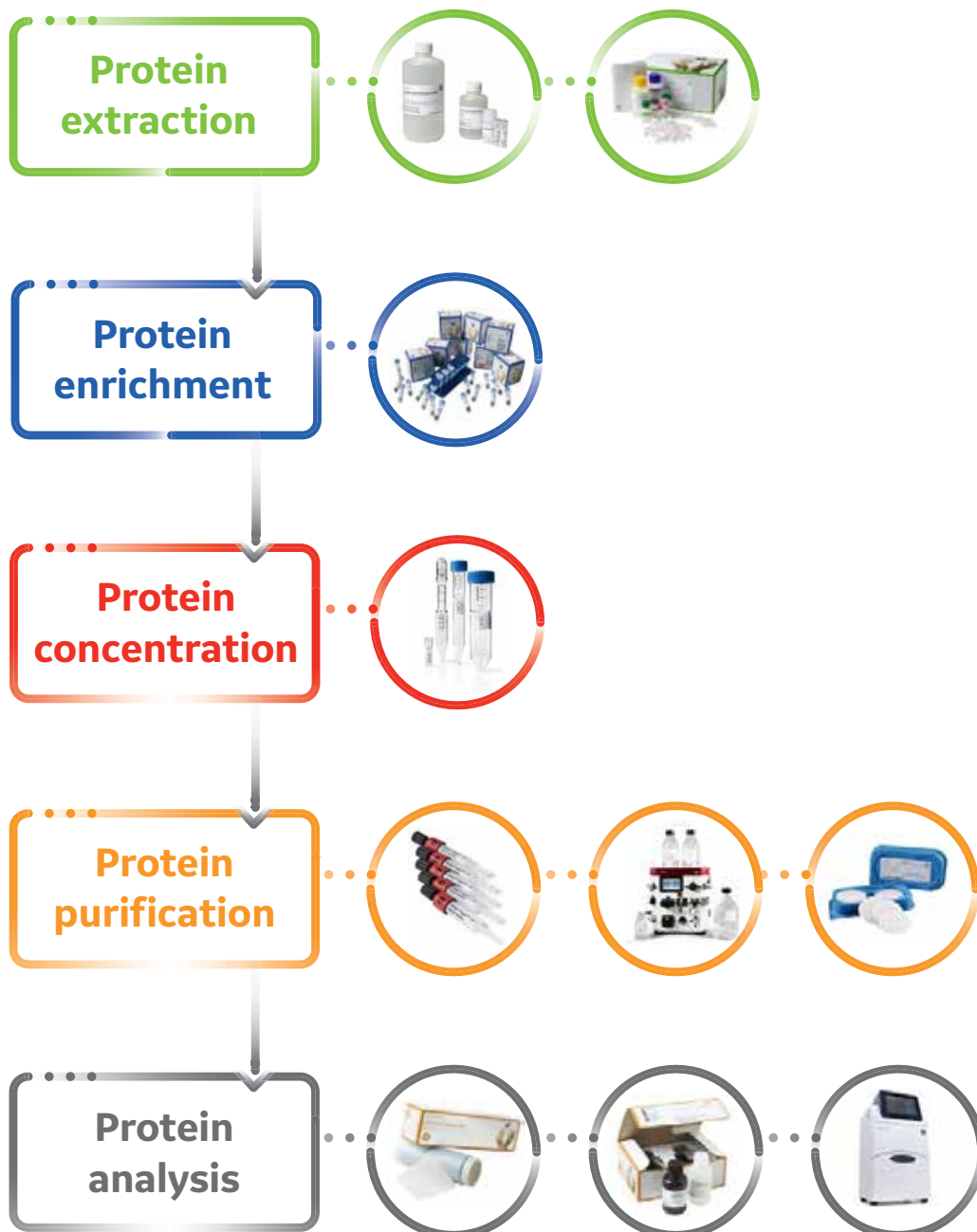


Table of Contents

Isolation and Cloning

Cell isolation

Ficoll-Paque™ and Percoll™ density gradient media	4
---------------------------------------------------------	---

PCR*

illustra™ PuReTaq Ready-To-Go™ PCR Beads.....	4
-----------------------------------------------	---

PCR Purification

illustra GFX™ PCR DNA and Gel Band Purification Kit.....	5
----------------------------------------------------------	---

PCR* and clean-up*

illustra ExoProStar™ for PCR clean-up.....	5
--------------------------------------------	---

Whole Genome

illustra RTG™ GenomiPhi™ DNA amplification kit	6
illustra Single Cell GenomiPhi DNA Amplification Kit.....	6

Purification workflow products to support your ÄKTA™ system	7
--------------------------------------------------------------------------	----------

Sample Prep

Whatman™ syringe filters and filter vials for analytical testing	8
-------------------------------------------------------------------------------	----------

Grade 1 Qualitative Filter Paper Standard Grade	9
--------------------------------------------------------------	----------

Analytical Sample Prep

Cellulose Nitrate Membrane Circle, plain, 0.2 µm pore size, 25 mm	10
-------------------------------------------------------------------------	----

Desalting and buffer exchange

PD-10, SpinTrap™, MidiTrap™ and MultiTrap™ columns	10
----------------------------------------------------------	----

Purification

Protein Purification	11
-----------------------------------	-----------

GST-tagged protein purification

Glutathione Sepharose™.....	12
-----------------------------	----

Histidine-tagged protein purification

Ni Sepharose™.....	12
--------------------	----

Ion exchange chromatography	13
------------------------------------------	-----------

MabSelect SuRe™	14
------------------------------	-----------

Size exclusion chromatography	14
--------------------------------------------	-----------

New Generation Size-Exclusion Chromatography Columns.....	14
------------------------------------------------------------------	-----------

Desalting and Buffer Exchange

PD-10 Desalting Column.....	15
-----------------------------	----

Protein Concentration

Vivaspin® Concentrators	15
-------------------------------	----

Analysis

Western Blotting Detection

ECL™ Western blotting detection reagents.....	16
-----------------------------------------------	----

Amersham™ ECL™ Western blotting detection reagents.....	16
----------------------------------------------------------------	-----------

Western Blotting Membranes

Amersham™ Western blotting membranes	17
--------------------------------------------	----

Amersham™ Molecular Weight Markers

Amersham™ ECL Full-Range Rainbow Molecular Weight Markers	18
-----------------------------------------------------------------	----

Amersham™ ECL secondary antibodies	18
-------------------------------------------------	-----------

Whatman Blotting paper

Whatman 3mm Chr blotting papers.....	18
--------------------------------------	----

HPLC Sample Prep	19
-------------------------------	-----------

Standard Laboratory

Syringe Filtration	19
---------------------------------	-----------

Cell isolation

UP TO 30% OFF!

Ficoll-Paque™ and Percoll™ density gradient media

Ready-to-use media for isolation of human lymphocytes with high yield from peripheral blood

- Maintains viability and representative distribution of B and T lymphocytes
- Low levels of endotoxin (< 0.12 EU/ml)



PCRx

illustra™ PuReTaq Ready-To-Go PCR Beads

Pre-mixed, predispensed, single-dose reactions optimised for performing standard PCR

- High-quality PuReTaq DNA polymerase and high-purity reagents
- Verified for real-time PCR
- Long-term ambient-temperature stable
- Available in 96-well plates



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
					Up to 30% off!
Ficoll-Paque™ Plus	6 x 100ml	GEHE17-1440-02	4	1140.00	969.00
Ficoll-Paque™ Premium	6 x 100ml	GEHE17-5442-02	1	315.00	—
Ficoll-Paque™ Premium 1084	6 x 100ml	GEHE17-5446-02	1	360.00	—
Percoll™ 1L	1 x 1 Litre	GEHE17-0891-01	4	2044.00	1737.40
illustra™ PuReTaq Ready-To-Go™ PCR Beads (0.2 ml tubes/multiwell plate)	1 x 96 tests	GEHE27-9557-01	1	189.20	—
illustra™ Ready-To-Go™ RT-PCR beads (0.2 ml hinged tubes with cap)	1 x 96 tests	GEHE27-9259-01	1	488.00	—
illustra™ Hot Start Mix, Ready-To-Go™, 0.2 ml tubes, 96 reactions	1 x 96 tests	GEHE28-9006-53	1	234.50	187.60
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 sheets	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 sheets	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42

PCR Purification

SAVINGS ON ILLUSTRATE KITS AND WHATMAN!

illustra GFX PCR DNA and Gel Band Purification Kit

Isolation and concentration of DNA fragments quickly from:

- PCR mixtures
- Agarose gel bands
- Enzyme digests

DNA for use in sequencing, PCR, labeling, digestion, and cloning

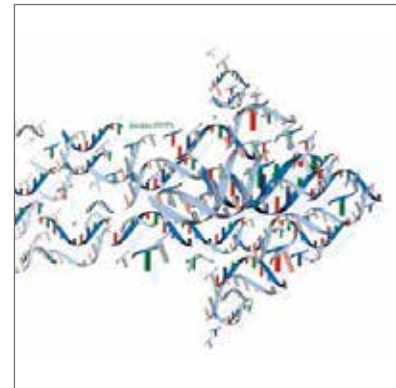


PCR* and clean-up

illustra ExoProStar™ for PCR clean-up

Enzymatic PCR clean-up technology with illustra Exonuclease I and Alkaline Phosphatase to remove unincorporated primers and dNTPs

- Fast (30 min) and easy to automate
- No loss of PCR product



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Savings on Illustra kits and Whatman!					
illustra™ GFX™ PCR DNA and Gel Band Purification Kit, 250 purifications	1 x 1 kit	GEHE28-9034-71	1	524.00	393.00
illustra™ PCR GFX™ 96 Purification Kit, 10x96-well plates	1 x 1 kit	GEHE28-9034-45	1	1775.00	—
illustra™ AutoSeq™ G-50 columns, Dye terminator	1 x 50 items	GEHE27-5340-01	1	203.30	—
illustra™ AutoSeq™ G-50 columns, Dye terminator	1 x 250 items	GEHE27-5340-02	1	904.00	—
illustra™ MicroSpin™ G-25 columns	1 x 50 items	GEHE27-5325-01	1	274.00	—
illustra™ MicroSpin™ G-50 columns	1 x 250 items	GEHE27-5330-02	1	1090.00	—
illustra™ ExoProStar™ Enzymatic PCR and Sequence Reaction Clean Up Kit	1 x 500 tests	GEHEUS78211	1	336.00	—
illustra™ RNAspin Mini Isolation Kit, 250 preps	1 x 250 tests	GEHE25-0500-72	1	1194.00	895.50
illustra™ RNAspin 96 Isolation Kit, 4x96 Preps	1 x 1 kit	GEHE25-0500-75	1	1340.00	—
illustra™ triplePrep Kit, 50 preps	1 x 50 tests	GEHE28-9425-44	1	572.00	—
FTA® Micro Card	1 x 100 items	WHATWB120210	1	489.00	391.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42

*Minimum quantity for Special Price

Whole Genome

SAVINGS ON ILLUSTRATE KITS AND WHATMAN!

illustra RTG GenomiPhi DNA amplification kit

Kit offers a highly efficient and representative amplification of the whole genome

- Shipping and storage at room temperature
- 12 to 20 µg yield from nanogram amounts of DNA sample



illustra Single Cell GenomiPhi DNA Amplification Kit

Single Cell GenomiPhi DNA Amplification kit combines the unique capabilities of Phi29 DNA polymerase with an optimised formulation to amplify genomic DNA from 1-1000 cells without background interference

- Whole Genome Amplification of genomic DNA from as little as a single cell
- Novel clean-up process suppresses background allowing sensitivity down to 1 fg of input DNA
- Simple Isothermal strand displacement (MDA) technology using Phi29 DNA polymerase
- Amplifications can be completed in less than 3 hours, with less than 15 minutes hands-on time



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Savings on Illustrate kits and Whatman!					
illustra™ Ready-To-Go™ GenomiPhi™ V3 Kit, 24 reactions	1 x 1 kit	GEHE25-6601-24	1	219.30	—
illustra™ Ready-To-Go™ GenomiPhi™ V3 Kit, 96 reactions	1 x 1 kit	GEHE25-6601-96	1	693.00	554.40
illustra™ Ready-To-Go™ GenomiPhi™ V3 Kit, 480 reactions	1 x 1 kit	GEHE25-6601-97	1	2993.00	—
illustra™ Single Cell GenomiPhi DNA Amplification Kit, 25 reactions	1 x 1 kit	GEHE29-1081-07	1	558.00	—
illustra™ Single Cell GenomiPhi DNA Amplification Kit, 100 reactions	1 x 1 kit	GEHE29-1080-39	1	2008.00	1606.40
illustra™ TempliPhi™ DNA Sequencing Template Amplification Kit	1 x 1 kit	GEHE28-9642-86	1	3901.00	—
illustra™ TempliPhi Sequence Resolver Kit, 200 reactions	1 x 1 kit	GEHE28-9035-31	1	2626.00	—
Nucleon™ BACC2, 50 preps of 10 ml or 100 x 1 ml DNA extraction kit	1 x 1 kit	GEHERPN8502	1	363.00	—
Nucleon™ BACC3, 50 preps of 10 ml DNA extraction kit	1 x 1 kit	GEHERPN8512	1	444.00	—
Nucleon™ HT genomic DNA extraction kit DNA extraction	1 x 1 kit	GEHERPN8509	1	393.00	—
Blotting membranes, Amersham™ Hybond™-N+ (300mm x 3m roll)	1 x 1 roll	GEHERPN303B	2	1646.00	1399.10
Blotting membranes, Amersham™ Hybond™-N+ (120x100 mm)	1 x 20 sheets	GEHERPN1210B	1	501.00	—
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42

Purification workflow products

Sample Prep

Filter your buffers to protect your LC system and columns using Whatman™ membrane filters



Purification

Purify your target protein with purification columns and Resins for AC, IEX, HIC, SEC*



Purification

Transfer the sample into the right buffer in one step using a buffer exchange column packed with Sephadex™ G-25 resin



Filter your samples with low protein binding Whatman syringe filters to protect the column and prevent clogging



Optimise your ÄKTA system with the right accessories
Connectors, tubings, column holders, valves, fraction collectors and racks, monitors and UNICORN™ software



Reduce sample volume with Vivaspin® concentrators
Mainly performed:

- Before SEC
- Once purification is completed

* AC = Affinity Chromatography
IEX = Ion Exchange Chromatography
HIC = Hydrophobic Interaction Chromatography
SEC = Size Exclusion Chromatography

Whatman syringe filters and filter vials for analytical testing

SAVINGS ON WHATMAN PURADISC SYRINGE FILTERS!

Product	Puradisc	SPARTAN™	Anotop™ IC	ReZist™	Whatman GD/X™	GD/XP
Main feature	Complete range	Regenerated cellulose membrane HPLC certified	Each batch certified for IC	PTFE membrane (for aggressive solvents)	For hard to filter samples	For hard to filter samples with low inorganic ion levels
Pre-Filter	N/A	N/A	N/A	N/A	Multilayer glass fiber prefilter GMF150 10-1 µm GF/F 0.7 µm	Multilayer polypropylene prefilter (20-5 µm)
Diameter	4, 13, 25, or 30 mm	13 or 30 mm	10 or 25 mm	13 or 30 mm	13 or 25 mm	25 mm
Main available pore sizes	0.1, 0.2, 0.45, 0.8, 1.0, 1.2, 5 µm	0.2 or 0.45 µm	0.2 µm	0.2 or 0.45 µm	0.2, 0.45, 0.7, 1.0, 1.2, 1.5, 2.7, 5.0 µm	0.45 µm
Main membrane materials available	Cellulose acetate, Nylon, PES, PVDF, PP, PTFE	Regenerated cellulose	Aluminium oxide	PTFE	Cellulose acetate, Nylon, PES, PVDF, PP, PTFE, RC	Nylon, PES, PVDF, PP, PTFE

Whatman Filter Selector web app – www.gelifesciences.com/filter-selector

Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Savings on Whatman Puradisc Syringe filters!					
Syringe filters Puradisc Whatman™, 0.1µm, PTFE, 25mm	1 x 50 items	WHAT6784-2501	1	222.00	188.70
Syringe filters Puradisc Whatman™, 0.2µm, Nylon, 25mm	1 x 50 items	WHAT6750-2502	1	231.00	196.35
Syringe filters Puradisc Whatman™, 0.2µm, PVDF 25mm	1 x 50 items	WHAT6746-2502	1	166.00	147.81
Syringe filters Puradisc Whatman™, 0.45µm, Nylon 25mm	1 x 50 items	WHAT6750-2504	1	206.00	175.10
Syringe filters Puradisc Whatman™, 0.45µm, PP 25mm	1 x 50 items	WHAT6786-2504	1	212.00	180.20
Syringe filters Puradisc Whatman™, 0.45µm, PTFE 25mm	1 x 50 items	WHAT6784-2504	1	249.00	211.65
Syringe filters Puradisc Whatman™ GD/X, 0.2µm, PP 13mm	1 x 150 items	WHAT6878-1302	1	410.00	379.00
Syringe filters Puradisc Whatman™ GD/X, 0.2µm, PVDF 13mm	1 x 150 items	WHAT6872-1302	1	351.00	312.53
Syringe filters Puradisc Whatman™ GD/X 0.45µm, Glass microfibre 13mm	1 x 150 items	WHAT6894-1304	1	410.00	379.00
Syringe filters Puradisc Whatman™ GD/X 0.45µm, PTFE 13mm	1 x 150 items	WHAT6874-1304	1	410.00	379.00
Syringe filters Puradisc Whatman™ GD/X 0.2µm, Nylon 25mm	1 x 150 items	WHAT6870-2502	1	714.00	529.00
Syringe filters Puradisc Whatman™ GD/X 0.45µm, Nylon 25mm	1 x 150 items	WHAT6870-2504	1	531.00	401.00
Syringe filters Puradisc Whatman™ GD/X 0.45µm, PVDF 25mm	1 x 150 items	WHAT6872-2504	1	424.00	377.53
Syringe filters Puradisc Whatman™ GD/X 0.7µm, GF/F 25mm	1 x 150 items	WHAT6890-2507	1	531.00	401.00
Syringe filters Puradisc Whatman™ GD/X 1.2µm, GF/C 25mm	1 x 150 items	WHAT6886-2512	1	499.00	389.00
Syringe filters Puradisc Whatman™ GD/X 5µm, Nylon 25mm	1 x 150 items	WHAT6870-2550	1	536.00	455.60
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42

Grade 1 Qualitative Filter Paper Standard Grade

A widely used standard grade filter paper for routine applications with a medium retention and flow rate, for a wide range of laboratory applications especially the clarification of liquids

These cellulose filters are used in qualitative analytical techniques to determine and identify materials

Prepleated qualitative filters are also available, which give improved flow rates and increased loading capacity compared to equivalent flat filters

Whatman glass microfiber filters without binder

Filters that combine high loading capacity with fine particle retention are well suited for applications such as water quality parameter measurements involving large sample volumes. Grade GF/A filters can function as wastewater filters or serve as filters in the following applications:

- Water pollution monitoring of effluents
- Filtration of water, algal and bacterial cultures, and proteins
- Food analysis
- Radioimmunoassay of weak emitters
- Gravimetric determination of airborne particulates
- Stack sampling and absorption methods of air pollution monitoring



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
25% off Whatman Filter Papers!					
Qualitative filter papers Whatman™, grade 1, Ø=125mm	1 x 100 items	WHAT1001-125	1	18.80	14.10
Qualitative filter papers Whatman™, grade 1, Ø=185mm	1 x 100 items	WHAT1001-185	1	36.90	27.68
Qualitative filter papers Whatman™, grade 1, Ø=320mm	1 x 100 items	WHAT1001-320	1	96.00	72.00
Qualitative filter papers Whatman™, grade 1, Ø=47mm	1 x 100 items	WHAT1001-047	1	15.10	11.33
Quantitative filter papers, Whatman™, grade 40, Ø=125mm	1 x 100 items	WHAT1440-125	1	51.00	38.25
Quantitative filter papers, Whatman™, grade 40, Ø=185mm	1 x 100 items	WHAT1440-185	1	82.40	61.80
Glass microfibre filters Whatman™, grade GF/C, Ø=125mm	1 x 100 items	WHAT1822-125	1	183.00	137.25
Glass microfibre filters Whatman™, grade GF/C, Ø=42.5mm	1 x 100 items	WHAT1822-042	1	53.00	39.80
Glass microfibre filters Whatman™, grade GF/C, Ø=90mm	1 x 100 items	WHAT1822-090	1	116.00	87.00
Glass microfibre filters Whatman™, grade GF/F, Ø=150mm	1 x 25 items	WHAT1825-150	1	180.00	135.00
Glass microfibre filters Whatman™, grade GF/F, Ø=47mm	1 x 100 items	WHAT1825-047	1	155.00	116.25
Glass microfibre filters Whatman™, grade GF/F, Ø=90mm	1 x 25 items	WHAT1825-090	1	129.00	96.75
Glass microfibre filters Whatman™, grade GF/A, Ø=110mm	1 x 100 items	WHAT1820-110	1	117.00	87.75
Glass microfibre filters Whatman™, grade GF/A, 203 x 254mm sheet	1 x 100 items	WHAT1820-866	1	347.00	—
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42

Analytical Sample Prep

SAVINGS!

Cellulose Nitrate Membrane Circle, plain, 0.2 µm pore size, 25 mm

Cellulose nitrate membranes, circles, plain

- Narrow pore size distribution for improved surface capture and analysis
- Low levels of extractables to ensure sample integrity

Recommended for the majority of routine applications, this membrane is manufactured under strictly controlled conditions. The user will benefit from the performance improvements that are now available in Whatman membrane filters, including very narrow pore size distribution and low levels of extractables



Desalting and buffer exchange


PD-10, SpinTrap™, MidiTrap™ and MultiTrap™ columns

For rapid and simple desalting, buffer exchange, and removal of low molecular weight compounds

- Available as columns and 96-well plate formats for clean-up of single or multiple samples, in volumes up to 1 ml, using gravity or centrifugation
- Packed with Sephadex™ G-25 medium

Table 1. Sample volume ranges of PD products

	Sample volume (gravity)	Sample volume (spin)
PD MultiTrap™ G-25		70–130 µl
PD SpinTrap™ G-25		70–130 µl
PD MiniTrap G-25	0.1-0.5 ml	0.2–0.5 ml
PD MidiTrap™ G-25	0.5-1.0 ml	.75–1.0 ml
PD-10 Desalting Columns	1.0-2.5 ml	1.75–2.5 ml



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Savings!					
Qualitative filter papers Whatman™, grade 595, 125mm	1 x 100 items	WHAT10311611	1	22.30	—
Qualitative filter papers Whatman™, grade 595 ½ folded, 240mm	1 x 100 items	WHAT10311651	1	140.00	—
Qualitative filter papers Whatman™, grade 595 ½ folded, 320mm	1 x 100 items	WHAT10311653	1	226.00	—
Membrane filters, nylon Whatman™, 0.2µm, 47mm	1 x 100 items	WHAT7402-004	1	173.00	—
Membrane filters, nylon Whatman™, 0.2µm, 90mm	1 x 50 items	WHAT7402-009	1	222.00	—
Quartz microfibre filters for air sampling, grade QM-A, Whatman™, 150mm	1 x 100 items	WHAT1851-150	1	978.00	—
Quartz microfibre filters for air sampling, grade QM-A, Whatman™, 32mm	1 x 100 items	WHAT1851-032	1	156.00	—
Membrane filters, cellulose nitrate Whatman™, 0,2µm, 25mm	1 x 100 items	WHAT7182-002	1	124.00	—
Membrane filters, cellulose nitrate Whatman™, 5µm, 25mm	1 x 100 items	WHAT7195-002	1	160.00	—
Membrane filters, cellulose nitrate Whatman™, 0,2µm, 47mm	1 x 100 items	WHAT7182-004	1	249.00	—
Membrane filters, cellulose nitrate Whatman™, 1µm, 47mm	1 x 100 items	WHAT7190-004	1	222.00	—
Membrane filters, cellulose nitrate Whatman™, 5µm, 47mm	1 x 100 items	WHAT7195-004	1	175.00	—
Desalting columns, HiTrap™, PP, 1x5 ml	1 x 1 item	GEHE29-0486-84	4	256.80	205.44
Columns, PD MiniTrap™ G-25, 2.1 ml, 9,7x28mm	1 x 50 items	GEHE28-9180-07	1	481.00	—
Columns, PD MiniTrap™ G-25, 13x26 mm	1 x 50 items	GEHE28-9180-08	1	483.00	—
Disposable PD-10 desalting columns, 8.3 ml, 14.5x50mm	1 x 30 items	GEHE17-0851-01	2	1012.00	809.60
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42

Protein purification

SAVINGS!

Purification system

ÄKTA™ start chromatography system

ÄKTA start is an affordable, easy-to-use protein purification system that allows you to automate manual protein purification procedures in academic and educational labs

- Intuitive touch-screen display and real-time monitoring
- Compact solution for quick and reliable one-step purification
- Quick start methods and templates for common purification techniques



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
10% off on ÄKTA™ Start!					
Protein purification system, ÄKTA™ start	1 x 1 item	GEHE29-0220-94	1	7932.00	7138.80
UNICORN™ start software, for ÄKTA™ start	1 x 1 item	GEHE29-0187-51	1	1037.00	933.30
Fraction collector, Frac30, for ÄKTA™ start	1 x 1 item	GEHE29-0230-51	1	1587.00	1428.30

PURIFICATION

GST-tagged protein purification

SAVINGS!

Glutathione S-transferase (GST) is a versatile means for expression, purification and detection of tagged proteins. GST-tagged proteins are purified by affinity chromatography utilising immobilised glutathione, such as Glutathione Sepharose™ High Performance (HP) and Glutathione Sepharose™ 4 Fast Flow (FF). Glutathione Sepharose™ HP is for high performance and high resolution purification of GST-tagged proteins. Glutathione Sepharose™ FF is for easy scale-up

Glutathione Sepharose™

- Fast and simple one-step purification of GST-tagged proteins
- Easy scale-up by connecting up to three HiTrap columns in series



Histidine-tagged protein purification

GE offers products for fast and convenient histidine-tagged recombinant protein purification using immobilised metal ion affinity chromatography (IMAC). Ni Sepharose™ media are precharged with nickel ions (Ni²⁺) and TALON® Superflow™ medium is precharged with cobalt ions (Co²⁺). Crude columns offer the convenience of simple, one-step purification of histidine-tagged proteins directly from homogenised, unclarified cell lysate by immobilised metal ion affinity chromatography (IMAC)

Ni Sepharose™

- Ni Sepharose™ FF and HP media and HisTrap™ HP and FF provide high binding capacity for your histidine-tagged proteins
- Prepacked HiTrap TALON® crude columns save time by allowing the application of unclarified samples directly, minimising labor and degradation of proteins
- The “crude” pre-packed columns offer onestep purification directly from homogenised, unclarified cell lysate

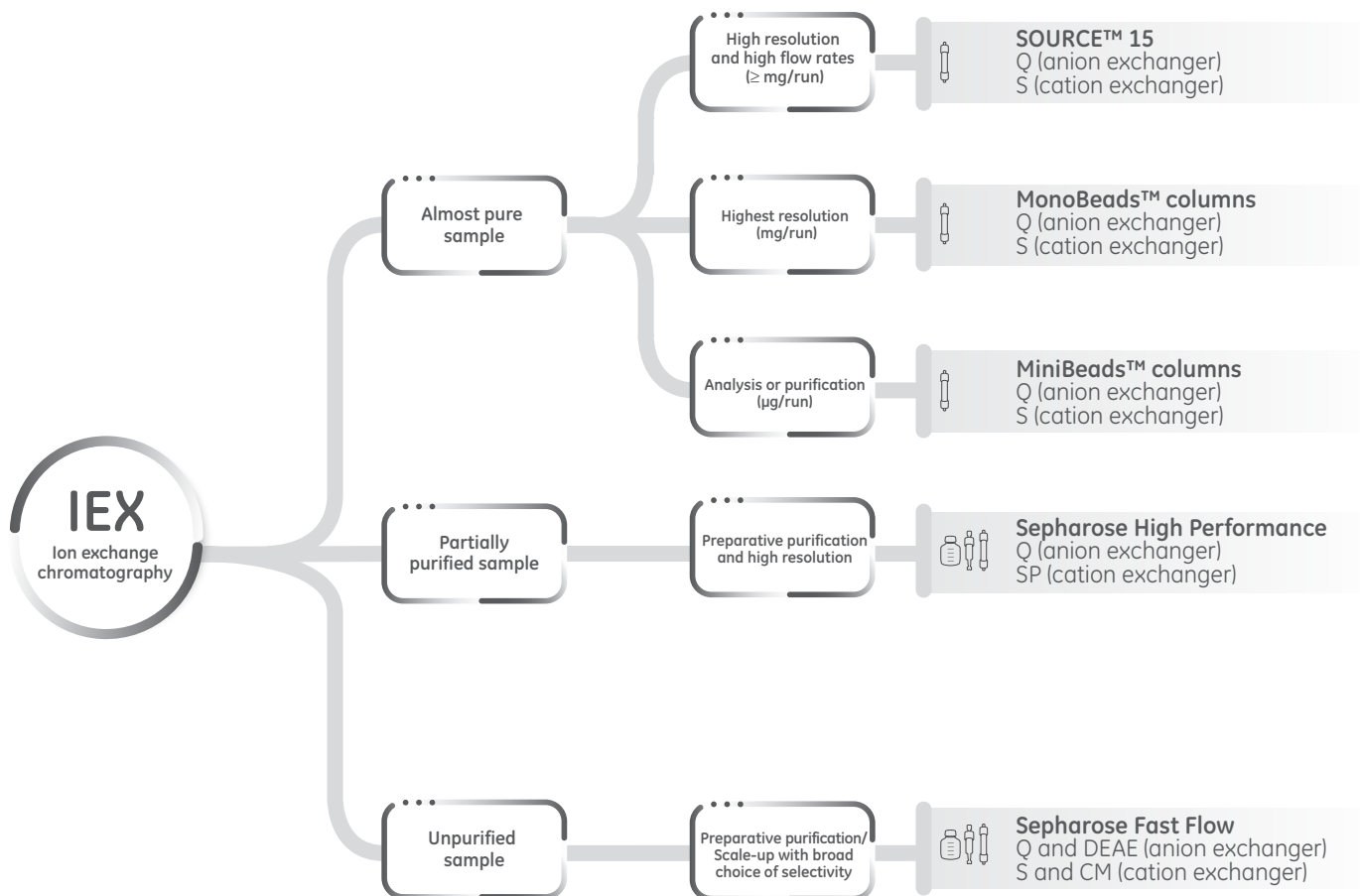


Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle	Savings!
Glutathione Sepharose™ 4B	1 x 10 ml	GEHE17-0756-01	1	346.00	—	—
Affinity chromatography columns, GSTrap™ FF, 5x1 ml	1 x 5 items	GEHE17-5130-01	1	428.00	—	—
Affinity chromatography columns, GSTrap™ FF, 5x5 ml	1 x 1 item	GEHE17-5131-02	1	1754.00	1403.20	—
Affinity chromatography columns, GSTrap™ FF, 1x5 ml	1 x 1 item	GEHE17-5131-01	1	417.00	—	—
Affinity chromatography columns, HiTrap™ Protein A HP, 5x5 ml	1 x 5 items	GEHE17-0403-03	1	4522.00	—	—
Affinity chromatography columns, HiTrap™ Protein A HP, 1x1 ml	1 x 1 items	GEHE29-0485-76	2	530.00	450.50	—
Affinity chromatography columns, HisTrap™ FF crude, 5x5 ml	1 x 5 items	GEHE17-5286-01	1	837.00	—	—
Affinity chromatography columns, HisTrap™ FF, 5x1 ml	1 x 5 items	GEHE17-5319-01	1	211.10	—	—
Affinity chromatography columns, HisTrap™ FF, 5x5 ml	1 x 5 items	GEHE17-5255-01	2	1458.00	1239.30	—
Affinity chromatography columns, HiTrap™ TALON® crude, 5 x 5 ml	1 x 5 items	GEHE28-9537-67	2	1812.00	1540.20	—
Syringe filters, GD/X™, Whatman™, PES, 0,45 µm, 25mm	1 x 150 items	WHAT6876-2504	1	420.00	373.97	—
Syringe filters, Puradisc™, Whatman™, sterile, PES, 0,45 µm, 25mm	1 x 50 items	WHAT6780-2504	1	161.00	—	—
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00	—
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00	—
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42	—
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42	—

Ion exchange chromatography

SAVINGS!

GE offers an extensive range of ion exchange chromatography (IEX) media (resins) in lab packs, and prepacked in a wide variety of columns such as HiTrap, HiPrep, and HiScreen. Choose a suitable IEX media depending on your target, sample, and the resolution that you need. Our IEX media include Capto™, MacroCap™ SP, MiniBeads™, MonoBeads™, Sephadex™, Sepharose™, and SOURCE™



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Savings!					
HiTrap™ IEX selection kit, 7×1 ml	1 × 7 items	GEHE17-6002-33	1	370.00	314.50
Anion exchange chromatography columns, HiTrap™ Q FF, 5×1 ml	1 × 5 items	GEHE17-5053-01	1	194.90	—
Ion exchange chromatography columns, HiTrap™ SP HP and HiTrap™ Q HP, 5×1 ml	1 × 5 items	GEHE17-1153-01	1	201.00	—
Cation exchange chromatography columns, HiTrap™ SP FF, 5×1 ml	1 × 5 items	GEHE17-5054-01	1	194.90	—
Cation exchange chromatography columns, HiTrap™ SP FF, 5×5 ml	1 × 5 items	GEHE17-5157-01	1	423.00	—
Ion exchange chromatography columns, HiTrap™ SP HP, 5×5 ml	1 × 5 items	GEHE17-1152-01	1	472.00	—
Ion exchange chromatography columns, HiTrap™ SP HP, 5×1 ml	1 × 5 items	GEHE17-1151-01	1	201.00	—
Ion exchange chromatography columns, HiTrap™ Q HP, 5×5 ml	1 × 5 items	GEHE17-1154-01	1	472.00	—
Benchkote™ Surface Protector, 460 × 570mm	1 × 100 items	WHAT2300-917	1	158.00	122.00
Benchkote™ Surface Protector, 460 × 570mm	1 × 50 items	WHAT2300-916	1	83.30	67.00
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 × 10 items	WHAT6722-5000	2	367.80	349.42
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 × 10 items	WHAT6722-5001	2	512.00	349.42

PURIFICATION

MabSelect SuRe™

SAVINGS!

- Binding Capacity/ml Chromatography Medium Approx. 35 mg human IgG/ml at 2.4 min residence time
- Novel, alkali-tolerant rProtein A ligand withstands rigorous CIP and sanitisation procedures with 0.1 to 0.5 M NaOH
- Reduces the risk of product contamination and carryover
- Improves product quality and reduces overall costs
- Novel ligand design gives enhanced protease resistance resulting in lower ligand leakage



Size exclusion chromatography

GE offers a wide range of gel filtration or size exclusion chromatography (SEC) media (resins). This includes media such as Sephacryl™ and Superose™ for wide ranges of fractionation, Superdex™ for high resolution, and Sephadex™ LH medium for separation of small molecules in organic solvents. GE also offer desalting and buffer exchange columns such as HiTrap Desalting, HiPrep26/10 Desalting, and Disposable PD-10 Desalting Columns

New Generation Size-Exclusion Chromatography Columns

Type of protein	Product name	Characteristics and benefits
Recombinant tagged proteins for Mr 3-70 kDa	Superdex™ 75 Increase	Compared with original Superdex™ columns: • Higher resolution • Reduced runtimes with maintained resolution
MAbs and other antibodies For Mr 10-000 kDa	Superdex™ 200 Increase	Compared with original Superdex™ columns: • Higher resolution using existing run times/flow rates • Upt to half the run time with maintained resolution columns
Large proteins and complexes For Mr 5-5000 kDa (wide fractionation range)	Superose™ 6 Increase	Compared with original Superose™ columns: • Improved resolution and run time

Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle	Savings!
Affinity chromatography columns, HiTrap™ MabSelect SuRe™, 5x1 ml	1 x 5 items	GEHE11-0034-93	1	1243.00	1056.55	
Affinity chromatography columns, HiTrap™ MabSelect SuRe™, 1x5 ml	1 x 1 item	GEHE11-0034-94	1	1577.00	—	
Affinity chromatography columns, HiTrap™ MabSelect SuRe™, 5x5 ml	1 x 5 items	GEHE11-0034-95	1	6593.00	—	
Column HiLoad™ Superdex™ Prep Grade, 16/600 75PG, 120 ml	1 x 1 item	GEHE28-9893-33	1	2744.00	—	
Column HiLoad™ Superdex™ Prep Grade, 26/600 75PG, 320 ml	1 x 1 item	GEHE28-9893-34	1	4428.00	—	
Column HiLoad™ Superdex™ Prep Grade, 16/600 200PG, 120 ml	1 x 1 item	GEHE28-9893-35	1	2743.00	—	
Column HiLoad™ Superdex™ Prep Grade, 26/600 200PG, 320 ml	1 x 1 item	GEHE28-9893-36	1	4427.00	—	
Column Tricorn Superose™ 6 Increase 10/300 GL	1 x 1 item	GEHE29-0915-96	1	2542.00	—	
Size exclusion chromatography columns, Superdex™ 75 Increase 10/300 GL	1 x 1 item	GEHE29-1487-21	1	2498.00	—	
Columns, Superdex™ 200 Increase 10/300 GL	1 x 1 item	GEHE28-9909-44	1	2543.00	—	
Benchkote™ Surface Protector, 460 x 570mm	1 x 100 items	WHAT2300-917	1	158.00	122.00	
Benchkote™ Surface Protector, 460 x 570mm	1 x 50 items	WHAT2300-916	1	83.30	67.00	
VacuGuard 50mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5000	2	367.80	349.42	
VacuGuard 60mm 0.45µm PTFE Vacuum protection filter	1 x 10 items	WHAT6722-5001	2	512.00	349.42	

Desalting and Buffer Exchange

UP TO 20% OFF PD-10 AND VIVASPIN®!

PD-10 Desalting Column

PD-10 Desalting Columns contain Sephadex™ G-25 resin for rapid buffer exchange, desalting, and removal of small contaminants (salts, dyes, radioactive labels) from samples using gravity flow or centrifugation

- Flexible throughput – desalt one sample or multiple samples in parallel
- Good recovery – in the range of 70% to > 95%
- High desalting capacity – remove > 98% salt with gravity; > 90% with centrifugation



Protein Concentration

Vivaspin® Concentrators

Vivaspin® spin columns are designed for fast, nondenaturing concentration of biological samples by membrane ultrafiltration

- High recovery rates – up to 30-fold concentration of the sample, with recovery of the target molecule typically exceeding 95%
- Ease-of-use – one-step sample concentration in a single tube, for minimal sample handling and reduced sample loss
- High flow rates – minimal membrane blockage through the vertical polyethersulfone (PES) membrane design



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Up to 20% off PD-10 and Vivaspin®!					
Disposable PD-10 desalting columns, 8,3ml, 14,5x50mm	1 x 30 items	GEHE17-0851-01	2	1012.00	809.60
Sample concentrators, Vivaspin® 500, 10kD	1 x 25 items	GEHE28-9322-25	2	237.60	201.96
Sample concentrators, Vivaspin® 500, 100kD	1 x 25 items	GEHE28-9322-37	1	118.80	—
Sample concentrators, Vivaspin® 2, 10kD	1 x 25 items	GEHE28-9322-47	2	373.20	317.22
Sample concentrators, Vivaspin® 2, 30kD	1 x 25 items	GEHE28-9322-48	1	186.60	—
Sample concentrators, Vivaspin® 20, 10kD	1 x 12 items	GEHE28-9323-60	2	356.40	302.94
Sample concentrators, Vivaspin® 20, 30kD	1 x 12 items	GEHE28-9323-61	1	178.20	—
Sample concentrators, Vivaspin® 6, 50kD	1 x 25 items	GEHE28-9323-18	2	487.00	413.95
Sample concentrators, Vivaspin® 6, 100kD	1 x 25 items	GEHE28-9323-19	1	246.00	—

PURIFICATION

20% OFF!

Western Blotting Detection

ECL Western blotting detection reagents:


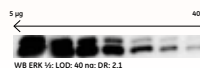
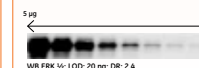
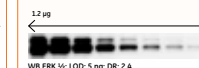
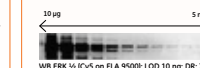
ECL based on horseradish peroxidase (HRP)-conjugated secondary antibodies has become the most commonly used detection method for Western blotting. It is a sensitive detection method, where the light emission is proportional to protein quantity. Minute quantities of proteins can be detected and quantitated

 **Longer shelf life: 18 month shelf life on ECL Select and Prime products**

 **Stability: ECL products are stable and stored at room temp**



Amersham™ ECL™ Western blotting detection reagents

Product	Amersham ECL start	Amersham ECL	Amersham ECL Prime	Amersham ECL Select™	Amersham ECL Plex™
Detection type	Chemiluminescence	Chemiluminescence	Chemiluminescence	Chemiluminescence	Fluorescence
Optimal membrane	Amersham Protran	Amersham Protran	Amersham Hybond™ P Amersham Protran	Amersham Hybond P Amersham Protran	Amersham Hybond LFP Amersham Protran Premium
Recommended detection	Amersham Hyperfilm™ (X-ray film) or ImageQuant™ LAS 500	Amersham Hyperfilm (X-ray film) or ImageQuant LAS 500	Amersham Imager 600 series X-ray film is also an option	Amersham Imager 600 series X-ray film is also an option	Typhoon™ FLA series Amersham Imager 600RGB
Signal duration	< 3 h	< 2 h	< 24 h	< 2 h	> 3 months
Typical applications	<ul style="list-style-type: none"> Routine protein detection High expressed proteins e.g house keeping proteins Tagged proteins 	<ul style="list-style-type: none"> Routine protein detection Protein confirmation Overexpressed proteins Tagged proteins 	<ul style="list-style-type: none"> Protein quantitation Protein confirmation Protein regulation and expression analysis 	<ul style="list-style-type: none"> Protein quantitation Protein confirmation Protein regulation and expression analysis 	<ul style="list-style-type: none"> Multiplex analysis Normalization to housekeeping protein Analysis of post translational modifications and isoforms
Typical results					

Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Amersham™ ECL Start, Western Blotting detection reagents, (2 x 200ml)	1 x 1 kit	GEHERPN3244	1	243.60	—
Amersham™ ECL Start, Western Blotting detection reagents, (2 x 100ml)	1 x 1 kit	GEHERPN3243	2	304.60	243.68
Amersham™ ECL Prime, Western Blotting detection reagent for 1000cm ²	1 x 1 kit	GEHERPN2232	2	632.00	505.60
Amersham™ ECL Select, Western Blotting detection reagent for 1000cm ²	1 x 1 kit	GEHERPN2235	2	788.00	630.40




20% off!

15% OFF AMERSHAM™
BLOTTING MEMBRANES!

Western Blotting Membranes

Amersham™ Western blotting membranes

GE Healthcare Life Sciences offers a broad selection of nitrocellulose (NC) and polyvinylidene difluoride (PVDF) Western blotting membranes, with pore sizes ranges to suit your application requirements

-  Optimised for chemiluminescent and fluorescent detection
-  Excellent protein binding capacity over a wide size range
-  New larger pack sizes reduce your price per blot by up to 30%



Amersham™ Protran™

NC membranes with high affinity for proteins, great blocking ability, and compatibility with a range of detection methods

Amersham™ Protran™ Supported

NC membranes supported by an inert polyester nonwoven material, giving the membranes exceptional handling characteristics that allows for stripping and reprobing of the membrane

Amersham™ Hybond™ P

PVDF membranes with low background and high sensitivity and resolution, for all labeling and detection systems, but particularly recommended for chemiluminescence detection

Amersham™ Hybond™ LFP

PVDF membranes specifically optimised for fluorescence detection methods

Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
15% off Amersham™ Blotting Membranes!					
Blotting membranes, Amersham™ Protran™, 0.2µm NC, 300 mm × 4 m	1 x 1 roll	GEHE10600001	1	406.00	—
Blotting membranes, Amersham™ Protran™, 0.45µm NC, 300 mm × 4 m	1 x 1 roll	GEHE10600002	2	674.00	572.90
Blotting membranes, Amersham™ Protran™ Premium, 0.2µm NC, 300 mm × 4 m	1 x 1 roll	GEHE10600004	1	412.00	—
Blotting membranes, Amersham™ Protran™ Premium, 0.45µm NC, 300 mm × 4 m	1 x 1 roll	GEHE10600003	2	692.00	588.20
Blotting membranes, Amersham™ Protran™, 0.2µm NC, 300mm × 4 m	1 x 1 roll	GEHE10600015	1	437.00	—
Blotting membranes, Amersham™ Protran™, 0.45µm NC, 300mm × 4 m	1 x 1 roll	GEHE10600016	2	802.00	681.70
Blotting membranes, Amersham™ Hybond™ 0.2µm PVDF, 260mm × 4 m	1 x 1 roll	GEHE10600021	1	409.00	—
Blotting Membranes, Amersham™ Hybond™ 0.45µm PVDF, 300mm × 4 m	1 x 1 roll	GEHE10600023	2	750.00	637.50
Blotting membranes, Amersham™ Hybond™ LFP 0.2µm PVDF, 254 mm × 4 m	1 x 1 roll	GEHE10600022	2	1222.00	977.60
Blotting membranes, Protran™ BA85, nitrocellulose, 0.45µm, Ø=82 mm	1 x 50 items	WHAT10401116	1	243.00	—

*Minimum quantity for Special Price 17

Amersham™ Molecular Weight Markers

Amersham™ ECL Full-Range Rainbow Molecular Weight Markers

- Ready-to-load markers with sharp, intense bands on gels and blots enable monitoring of electrophoresis progress and convenient confirmation of transfer to blotting membranes
- Comprised of 10 individually coloured proteins in the molecular weight range of 12,000 to 225,000.
- Each 250µl pack size is sufficient for use with 50 mini-gels (10 x 8cm) or 25 large gels (20 x 20cm)

Amersham™ ECL Secondary Antibody

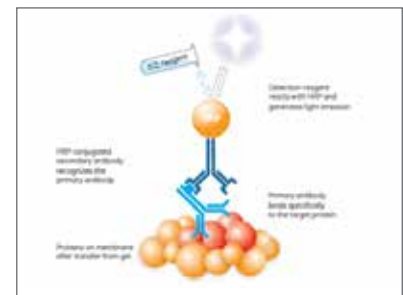
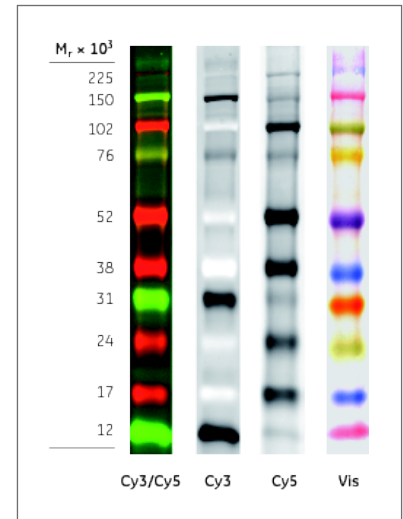
Highly species-specific HRP-conjugated antibodies optimised for use with Amersham™ ECL Western blotting detection reagents

Whatman Blotting Paper

Whatman 3mm Chr blotting papers

- Pure cellulose produced entirely from the highest quality cotton linters with no additives of any kind
- Ensures that no contamination will occur during the transfer step
- Whatman 3mm Chr considered the industry standard for blotting procedures

SAVINGS!



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Full-Range Rainbow Amersham™ molecular weight markers	1 x 250 µl	GEHERPN800E	1	315.00	252.00
High-Range Rainbow Amersham™ molecular weight markers	1 x 250 µl	GEHERPN756E	1	252.00	—
Long-Range Rainbow Amersham™ molecular weight markers	1 x 250 µl	GEHERPN755E	1	252.00	—
ECL Plex Amersham™ fluorescent Rainbow™ markers	1 x 120 µl	GEHERPN850E	1	101.00	—

Savings!

HPLC Sample Prep

UP TO 27% OFF HPLC
SAMPLE PREP!

HPLC sample preparation often requires a filtration step before samples can be used in the liquid chromatography column. This step helps to clarify peaks of compounds being analyzed and protects the column from large particles that might damage it

SPARTAN™ filters from GE cater to this need, because their regenerated cellulose hydrophilic membrane is resistant to common HPLC solvents and exhibits very low levels of extractables that could otherwise interfere with analysis



Standard Laboratory Syringe Filtration

Puradisc syringe filters cater to a wide variety of sample types and applications, including capillary electrophoresis, biological preparations, protein filtration, and UV spectroscopy sample preparation. Different Puradisc membrane media support diverse chemical solvents and compounds

Puradisc is available in the following membrane materials: regenerated cellulose (RC), cellulose nitrate, nylon, polytetrafluoroethylene (PTFE), polyethersulfone (PES), polypropylene, polyvinylidene difluoride (PVDF), and cellulose acetate



Description	Pack Size	Product Code	*Min Qty	Total List Price for Bundle	Total Special Price for Bundle
Up to 27% off HPLC Sample Prep!					
Protein saver cards, 903®, Whatman™, 76x108mm	1 x 100 items	WHAT10531018	1	309.00	231.75
Syringe filters, SPARTAN™, Whatman™, 0.2µm RC, 13mm	1 x 100 items	WHAT10463100	1	244.00	209.14
Syringe filters, SPARTAN™, Whatman™, 0.2µm RC, 13mm, minitip	1 x 100 items	WHAT10463040	1	302.00	219.60
Syringe filters, SPARTAN™, Whatman™, 0.45µm RC, 13mm	1 x 100 items	WHAT10463110	1	244.00	209.14
Syringe filters, SPARTAN™, Whatman™, 0.45µm RC, 13mm, minitip	1 x 100 items	WHAT10463030	1	302.00	219.60
Syringe filters, SPARTAN™, Whatman™, 0.2µm RC, 30mm	1 x 100 items	WHAT10463060	1	279.00	239.14
Syringe filters, SPARTAN™, Whatman™, 0.45µm RC, 30mm	1 x 100 items	WHAT10463050	1	277.00	237.43
Syringe filters, SPARTAN™, Whatman™, 0.45µm RC, 30mm, minitip	1 x 50 items	WHAT10463053	1	202.00	146.70
Syringe filters, Puradisc 4 Whatman™, 0.2µm PVDF, 4mm, tube slip	1 x 50 items	WHAT6777-0402	1	196.00	166.60
Syringe filters, Puradisc 4 Whatman™, 0.45µm PVDF, 4mm, tube slip	1 x 50 items	WHAT6777-0404	1	196.00	166.60
Syringe filters, Puradisc 13 Whatman™, 0.1µm Nylon 13mm	1 x 100 items	WHAT6789-1301	1	244.00	207.40
Syringe filters, Puradisc 13 Whatman™, 0.2µm Nylon 13mm	1 x 100 items	WHAT6789-1302	1	239.00	203.15
Syringe filters, Puradisc 13 Whatman™, 0.2µm PVDF 13mm, sterile	1 x 50 items	WHAT6791-1302	1	266.00	226.10
Syringe filters, Puradisc 13 Whatman™, 0.45µm PVD 13mm, sterile	1 x 50 items	WHAT6791-1304	1	232.00	197.20
Up to 30% off!					
Syringe filters, Anotop™ 25 Whatman™, 0.02 µm hydrophilic alumina, 25mm	1 x 50 items	WHAT6809-2002	1	521.00	442.85
Column Tricorn Superose™ 6 Increase 5/140 GL, 1x3ml	1 x 1 item	GEHE29-0915-97	1	2521.00	—
Size exclusion chromatography columns, Superdex™ 75 Increase, 5/150 GL	1 x 1 item	GEHE29-1487-22	1	2477.00	—
Gel filtration chromatography columns, Superdex™ 200 Increase, 5/150 GL, 3ml	1 x 1 item	GEHE28-9909-45	1	2521.00	—

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GE Purification Handbooks – www.gelifesciences.com/purify-handbooks

Whatman filter Selector web app – gelifesciences.com/labfilterselector

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Ready to Go RT-PCR Beads

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