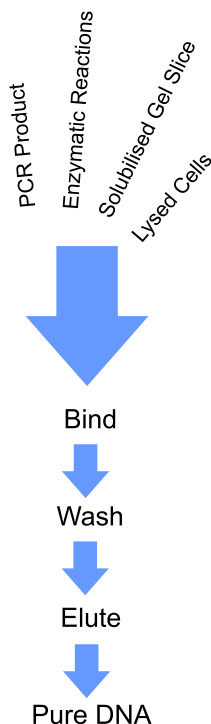


DNA Spin Column Kits

For High Quality, Low Cost Purification



- ✓ Gel Extraction
- ✓ PCR Purification
- ✓ Reaction Cleanup
- ✓ Plasmid DNA Miniprep

50
Prep Kits
£36

100
Prep Kits
£67

250
Prep Kits
£168

Our new range of Spin Column kits have been designed for fast, high quality extraction/purification of DNA from a variety of sources. These kits have been successfully tested at universities across the UK and are supplied with spin columns, collection tubes, buffers and protocols.

“ Recommendation...

I am very happy with the (PCR Purification Kit) performance, and given the price, I will be using this from now on rather than the Brand Q kit.

Department of Pathology, University of Cambridge

”

In addition to our popular kits for DNA cleanup and Plasmid purification we also have Spin Column and 96-well kits for a variety of specialist applications (see box below), many of which are available as sample kits!

Ordering Information

	50 prep	100 prep	250 prep
PCR Purification Kit	NBS-363	NBS-364	NBS-664
Gel Extraction Kit	NBS-353	NBS-354	NBS-654
Reaction Cleanup Kit	NBS-367	NBS-368	NBS-668
Plasmid Miniprep Kit	NBS-413	NBS-414	NBS-614
	£36.00	£67.00	£168.00

Other Kits Available...

DNA Cleanup

PCR Purification
Gel Extraction
Reaction Cleanup

DNA (other)

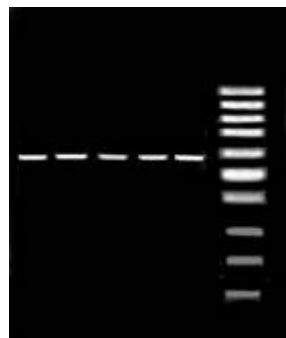
Tiny sample DNA/RNA recovery
Single colony screening
Rapid plant gDNA extraction
Herbal gDNA extraction
Fungal (yeast) gDNA extraction
Animal gDNA extraction
One tube DNA isolation buffer
Blood clot gDNA extraction
Whole blood gDNA extraction
Soil DNA extraction
Mycobacterium DNA Extraction
Swab DNA extraction
DNA extraction from paraffin-embedded tissue
Apoptotic DNA ladder detection
Random priming DNA labelling kit

DNA Miniprep

DNA Plasmid Miniprep
DNA Plasmid Mediprep
DNA Plasmid Maxiprep
Endotoxin-Free plasmid Minipreps
Bacterial gDNA Miniprep
Bacteria gDNA Maxiprep
Plant gDNA Miniprep
Animal gDNA Miniprep
Animal gDNA Maxiprep
Whole Blood gDNA Miniprep
Insect gDNA Miniprep
Soil DNA Miniprep
Viral DNA Miniprep
Hair DNA Miniprep
Stool DNA Miniprep

DNA 96-Well

PCR Purification
Reaction Cleanup
Classic Plasmid miniprep
Plasmid Miniprep
Single colony plasmid miniprep
Bacterial gDNA miniprep
Plant gDNA maxiprep



Gel electrophoresis of PCR products purified using Spin Column PCR Purification Kit. Right Lane is DNA marker.

SafeView DNA Stain

The Safer Alternative to Ethidium Bromide

- ✓ Non-carcinogenic and Economical
- ✓ As Sensitive and Convenient as Ethidium Bromide
- ✓ Compatible with Standard Molecular Biology Applications

SafeView is a safer nucleic acid stain for the detection of double-stranded DNA, single-stranded DNA and RNA in Agarose gels. This dye replaces Ethidium Bromide (toxic, potential mutagen) commonly used in Agarose gel electrophoresis.

“ Recommendation... ”

*SafeView is much brighter than the same product stained with Et Br.
CAZS Natural Resources, University of Wales, Bangor (used for PCR product checking)* ”

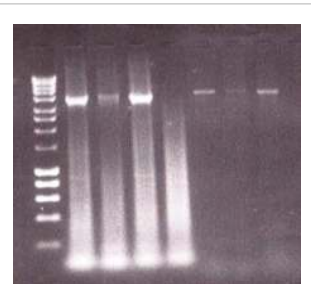
SafeView is non-carcinogenic and causes significantly fewer mutations in the Ames-test. SafeView also tests negative in both the mouse marrow chromophilous erythrocyte micronucleus test and mouse spermary spermatocyte chromosomal aberration test.

SafeView emits green fluorescence when bound to dsDNA, ssDNA and RNA and has a fluorescence excitation maxima when bound to nucleic acid at approx.290-320nm, emitting at 490nm.



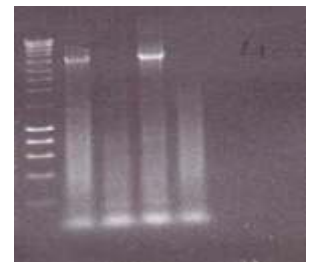
Ordering Information

SafeView Nucleic Acid Stain	NBS-SV1	1ml	£30.00
SafeView Nucleic Acid Stain	NBS-SV5	5x1ml	£120.00



(above)
PCR product stained with SafeView stain.

(below)
Same PCR product stained with Ethidium Bromide.



Agarose SG

Our New All-Purpose Agarose

- ✓ Low cost and low EEO - Ideal for routine analysis!
- ✓ Standard Melting and Gelling Temperature
- ✓ DNase, RNase and Protease Free

Gel Strength (1.0% (g/cm ²))	>1200
Gelling Range (1.5% (°C))	35-37
Melting Range (°C)	87-89
EEO (-mr)	<0.13
Sulfate (%)	<0.20%

Ordering Information

Agarose SG	NBS-AG500	500g	£140.00
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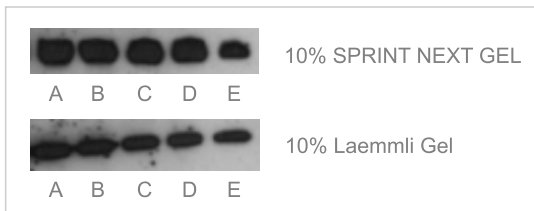
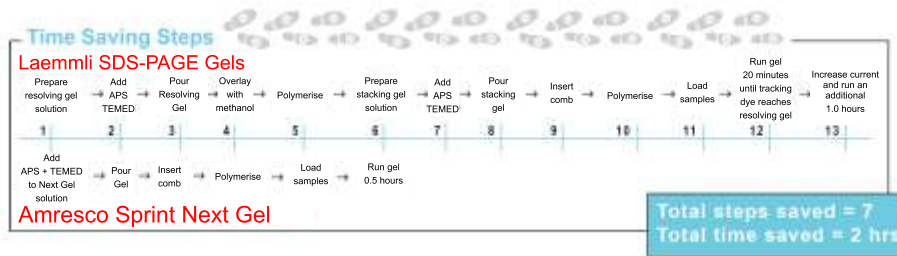
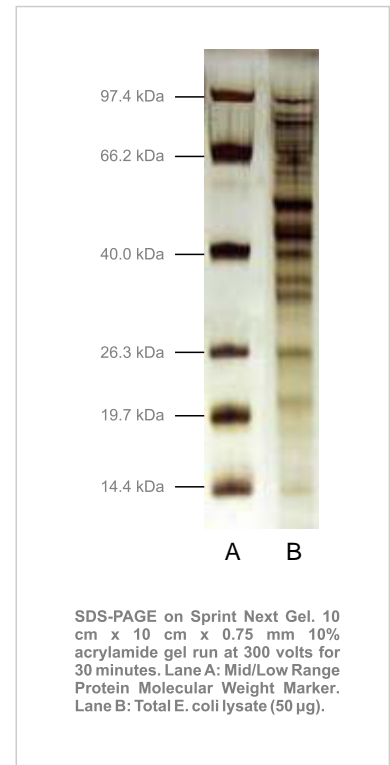


Sprint Next Gel

Premixed SDS-PAGE Solution

- ✓ Cast & polymerise a 10 cm x 10 cm x 0.75 mini-gel in < 15 mins
- ✓ Gel running time is less than 30 minutes

Sprint Next Gel is a ready-to-pour acrylamide solution optimised to reduce running time on standard SDS-PAGE mini-gels. It is ideal for any situation that requires rapid analysis of protein samples by electrophoresis. Sprint Next Gel is available as a ready-to-pour 1X solution at acrylamide concentrations of 10% or 12.5%.



Ordering Information

Sprint Next Gel, 10%	M312-100ML	100ml	£29.50
	M312-500ML	500ml	£109.50
Sprint Next Gel, 12.5%	M311-100ML	100ml	£29.50
	M311-500ML	500ml	£109.50

ProLUMA

Fluorescent Protein Stain

- ✓ Visualise bright, sharp bands in only 25 minutes
- ✓ Compatible with western blotting and 2D PAGE

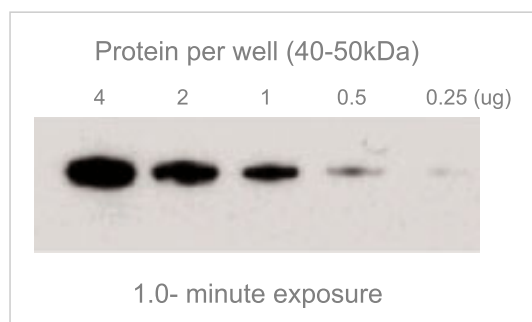
Ordering Information

ProLUMA Fluorescent Dye	M308-10ML	10ml	£17.00
	M308-125ML	125ml	£105.50

ProLUMA Fluorescent protein gel dye is a rapid stain for polyacrylamide gels that eliminates the need for fixing and destaining steps. Simply dilute ProLUMA, incubate gel for 20 minutes and place on a standard UV transilluminator. Bright sharp bands are visible in 3-5 minutes.

ECL Western Blotting Reagent

Chemiluminescent Substrate for HRP



- ✓ **Highly Sensitive Nonradioactive Substrate**
- ✓ **Ideal Substitute for Amersham ECL Reagent**
- ✓ **Easy Detection of Picogram Amounts of Antigen**

ECL Western Blotting Substrate is a highly sensitive nonradioactive, enhanced luminol based chemiluminescent substrate for the detection of horseradish peroxidase (HRP) on immunoblots.

ECL Western Blotting Substrate enables the detection of picogram amounts of antigen and allows for easy detection of HRP using photographic or other imaging methods. Blots can be repeatedly exposed to X-ray film to obtain optimal results or stripped of the immuno-detection reagents and re-probed. The special formulation of ECL Substrate makes it the ideal substitute for Amersham ECL Substrate without the need for additional optimisation of assay conditions

Product Description...

ECL Western blotting detection reagent contains 2x100ml of A and B solutions.

Solutions A and B are mixed in a 1:1 ratio immediately prior to application. The mixture is then ready for detection of any immobilised specific antigens in chemiluminescent Western blots through horseradish peroxidase (HRP) labelled antibodies. The kit is designed for a high quality and long lasting glow reaction.

The reagents in this kit have been matched to optimise the range and sensitivity of detection using various antibodies in Western blot assays.

Ordering Information

ECL Western Blotting Detection Reagents	G075	2x100ml	£59.50
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£59.50
2x100ml

Cell Counting Kit-8

Colourimetric Assay for Cell Viability & Cytotoxicity

- ✓ Low Cellular Toxicity
- ✓ Ready-to-Use Single Bottle Solution
- ✓ More Sensitive Than MTT, XTT, MTS or WST-1
- ✓ No Radioisotopes or Organic Solvents Required
- ✓ No Harvesting, Washing or Solubilisation Step Required



1. Add CCK-8 2. Incubate 3. Read O.D.

Cell Counting Kit-8 (CCK-8) is a Dehydrogenase based assay for cell viability and cytotoxicity. CCK-8 has been developed utilising highly water soluble tetrazolium salts, called WSTs, these produce a water-soluble formazan dye upon bioreduction in the presence of an electron carrier.

CCK-8 is added directly to the cells with no premixing of components, and is bioreduced by cellular dehydrogenases to give an orange formazan product that is soluble in tissue culture medium, and directly proportional to the number of living cells.

The kit components show no cytotoxicity in cell culture media and additional experiments may be carried out using the same assay plate. CCK-8 is a flexible assay and can be adapted for 24 – 384 well plates.

CCK-8 combines the highly stable WST-8 with 1-Methoxy PMS, giving a sensitive, nonradioactive colourimetric assay for determining the number of viable cells.

Also Available...

Cell Counting Kit-F
for Fluorometric Assay

**Toxicity of Assay Solutions:
Comparison Between CCK-8 and Other Assay Kits**



Cell Counting Kit-8



Cell viability kit from company R

Ordering Information

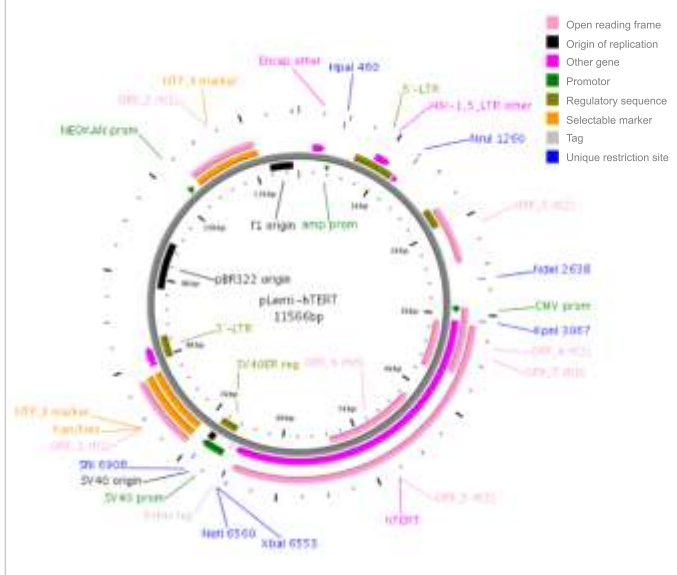
Cell Counting Kit-8	CK04-11	1000 assay	£198.00
	CK04-13	3000 assay	£408.50
	CK04-20	10,000 assay	£1115.00

Lenti-hTERT & Lenti/SV40

Recombinant Lentiviruses for Cell Immortalisation

We have a comprehensive range of cell immortalisation products that comprise of plasmids and retroviral and adenoviral vectors for hTERT, p53 and RB, siRNAs, and SV40 T antigens. We also offer ready-to-use recombinant retroviruses and adenoviruses. All these tools will make your cell immortalisation project simpler and easier than ever before!

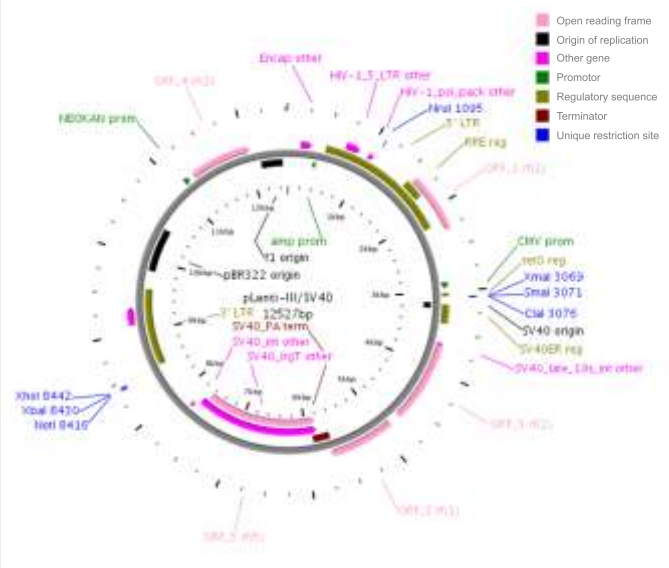
Lenti-hTERT is a recombinant telomerase lentivirus that is used to quickly introduce the Telomerase gene into human cell lines (including primary cells, excluding blood cells) with host genomic integration.



Ordering Information

Lenti-hTERT	G200	10ml	£585.50
LentiIII/SV40	G203	10ml	£585.50

Lenti/SV40 virus is a recombinant lentivirus containing SV40 T-antigens (large and small). The virus can be used to infect primary target cells for cell immortalisation. The SV40 genome is over 5kb, which exceeds the packaging limit of the lentiviral vector and will result in either very low or no lentiviral titer. For this reason, the puromycin selection marker has been deleted from our pLenti-III/HA vector to allow high titers of Lenti-SV40 virus to be produced.

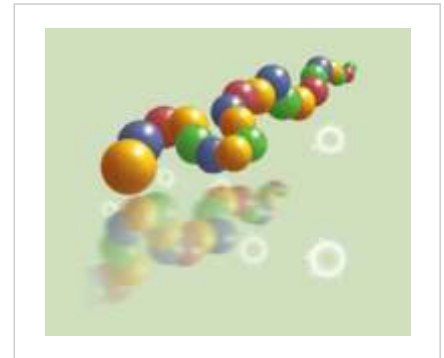


We also have Retroviruses and Adenoviruses available...

please enquire for details

Custom siRNA Oligos

- ✓ Fantastic Low Price
- ✓ Free Design, & Control Oligo
- ✓ High Quality: HPLC Purity >97%
- ✓ Chemical Modified, Dye-Labelled or Large Scale Oligos



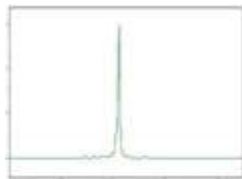
These custom siRNA oligos are purified by HPLC, which removes 100% of unpaired single chains. Researchers just need to dilute siRNA oligos into the included universal buffer.

PAGE Verification



£78.00 (12.5nmol)

HPLC Purification



Ordering Information

Custom siRNA Oligo			
A01002	5.0 nmol		£46.00
A01005	12.5 nmol		£78.00
A01010	25.0 nmol		£142.00

DNAfectin

High Efficiency Transfection Reagent

£96.50 / ml

- ✓ Optimised for Over 50 Cell Lines
- ✓ Suitable for Primary Cells
- ✓ Low Cytotoxicity

DNAfectin comprises of four unique formulations of polycations and liposomes, which will guarantee high transfection efficiency and low cytotoxicity for any cell type including primary cells. Over 50% transfection efficiency can be achieved using one of our four DNAfectin formulations for any cell line.

Cell Line	Efficiency	Reagent
293T	100%	DNAfectin2100
HeLa	80-90%	DNAfectin2100
Calu-6	70-75%	DNAfectin2200
MCF7	80%	DNAfectin2200
MDA-MB-468	75%	DNAfectin2300
T-47D	80-85%	DNAfectin2300
T24	85%	DNAfectin2400
U2OS	80%	DNAfectin2400

Please enquire for details of other tested cell lines...

Ordering Information

DNAfectin 2100	G2100	1mg/ml	£96.50
DNAfectin 2200	G2200	1mg/ml	£96.50
DNAfectin 2300	G2300	1mg/ml	£96.50
DNAfectin 2400	G2400	1mg/ml	£96.50

SOD Assay Kit-WST

WST-1 Based SOD Inhibition Assay



- ✓ Convenient 96-well microplate colourimetric assay
- ✓ Only kit to measure 100% inhibition by SOD
- ✓ Low background noise measurement
- ✓ pH independent IC50 determination

SOD Assay Kit-WST allows very convenient and highly sensitive SOD assay by utilising the highly water-soluble tetrazolium salt, WST-1, which produces a water-soluble formazan dye upon reduction with a superoxide anion.

WST-1 is 70 times less reactive with superoxide anion than cytochrome C; therefore, highly sensitive SOD detection is possible and samples can be diluted with buffer to minimise background problems. WST-1 does not react with the reduced form of xanthine oxidase; therefore, even 100% inhibition with SOD is detectable. The rate of WST-1 reduction by superoxide anion is linearly related to the xanthine oxidase activity, and is inhibited by SOD. Therefore, the IC₅₀ (50% inhibition concentration) of SOD or SOD-like materials can be determined using colourimetric methods.

Assay Procedure



Step 1

Add 20 µl sample solution or H₂O to each well



Step 2

Add WST working soln, Dilution buffer, and Enzyme



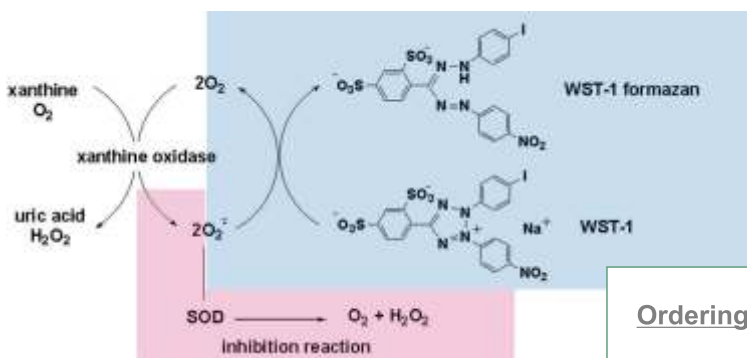
Step 3

Incubate the plate at 37°C for 20 min.



Step 3

Read O.D. at 450 nm.



Also Available...

[DNA Damage Quantification Kit](#)

[Total Glutathione Quantification Kit](#)

Ordering Information

SOD Assay Kit-WST	S311-08	100 assay	£128.00
SOD Assay Kit-WST	S311-08	500 assay	£344.50

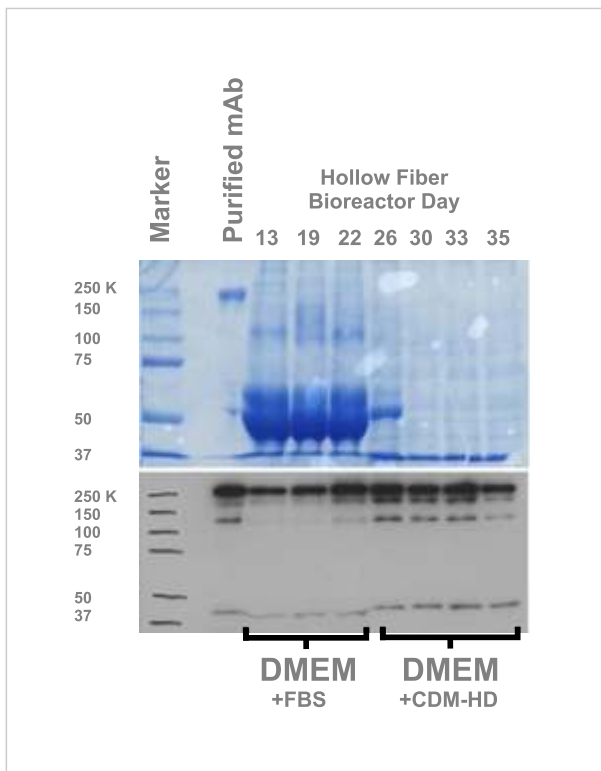
CDM-HD Serum Replacement

Protein Free and Chemically Defined

- ✓ Lot-to-Lot Consistency
- ✓ Regulatory Compliance Simplified
- ✓ Long Shelf Life, Simple Storage Conditions

CDM-HD Serum Replacement is a chemically defined, protein free serum replacement that permits any basal medium such as DMEM or RPMI to be used without serum.

CDM-HD provides lot-to-lot consistency and is an economical replacement for serum. It is available as a dry powder to make up one liter and is used at a concentration of 10%. The cost of CDM-HD is half that of serum giving you all the benefits of a chemically defined, protein free medium without the high price.



Ordering Information

CDM-HD Serum Replacement	CDM-HD	powder to make 1L	£130.00
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CDM-HD is part of the wider hollow fiber cell culture range we distribute, this range includes the duet pump, cartridges and accessories.

'1 Hollow fiber cartridge = 20 roller bottles daily!'

Designed for....

- + Monoclonal Antibodies
- + Recombinant Proteins
- + Endothelial
- + In Vitro Toxicity
- + Lymphocyte
- + Virus



Float-A-Lyser G2

Ready-to-Use Dialysis Device

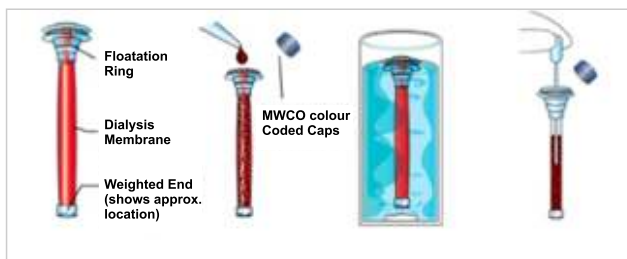
Introducing the Float-A-Lyser G2, the next generation in Ready-to-Use laboratory dialysis devices featuring proprietary Ultra-pure Biotech Cellulose Ester (CE) Membranes.



- ✓ **95 - 98% Sample Recovery**
- ✓ **Volume Specific Dilution Control**
- ✓ **Superior Handling & Leak Prevention**
- ✓ **Perfect for dialysing electro-eluted proteins or chromatography fractions**

The leak-proof screw-on cap with sealing o-ring provides easy access with included pipette for loading, in-process testing and sample retrieval, without the risk of needle punctures. The included floatation ring improves sample buoyancy and vertical orientation during dialysis. The sleek design allows multiple samples to be dialysed in the same reservoir.

Spectrum's proprietary Biotech Grade CE is a low protein-binding synthetic membrane available in 6 precise MWCO's with no heavy metal and sulfide contaminants. The cylindrical tubing geometry prevents sample dilution (associated with cassette-type devices) and provides open access for total volume retrieval by pipette. Only the Float-A-Lyser G2 assures a 95-98% sample recovery while maintaining 99% sample purity and <1% sample dilution.



	MWCO	Colour Code	Maximum Sample Volume			Qty
			1 ml	5 ml	10 ml	
CE	0.1 - 0.5 kD	Green	G235025	G235049	G235061	12/pkg
	3.5 - 5 kD	Black	G235029	G235053	G235065	
	8 - 10 kD	Yellow	G235031	G235055	G235067	
	20 kD	Red	G235033	G235057	G235069	
	50 kD	Violet	G235034	G235058	G235070	
	100 kD	Blue	G235035	G235059	G235071	
			£123.00	£134.50	£137.50	

We also have RC and CE dialysis tubing available...
please enquire for details

NBS Biologicals Ltd

14 Tower Square
Huntingdon
Cambridgeshire
PE29 7DT

01480 433 875
01480 459 868

www.nbsbio.co.uk
info@nbsbio.co.uk

Please visit our website to view our full product catalogue with additional information, literature and full pricing!

www.nbsbio.co.uk



In addition to our own product range, we are current UK distributors for the following brands...

Amresco



Dojindo



Applied Biological Materials



Spectrum



FiberCell



GenePharma



Dynamic Adsorbents

