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NBS

Product Brochure 2011

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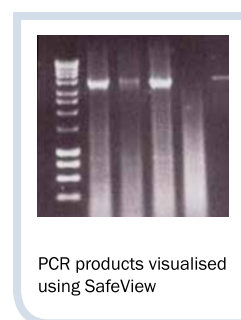
Biotech Dialysis Tubing

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The Safe Alternative to Ethidium Bromide

SafeView DNA Stain

SafeView is a safe nucleic acid stain for the detection of dsDNA, sDNA and RNA in Agarose gel. This dye is used in the same way as Ethidium Bromide and is visualised under UV without the need for any additional filters.



PCR products visualised using SafeView

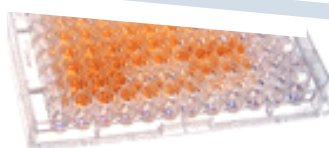


SafeView visualised using Green filter (optional)

See Page 2

Compatible with...

- ✓ Gel Extraction
- ✓ Ligation
- ✓ Transformation
- ✓ Transfection

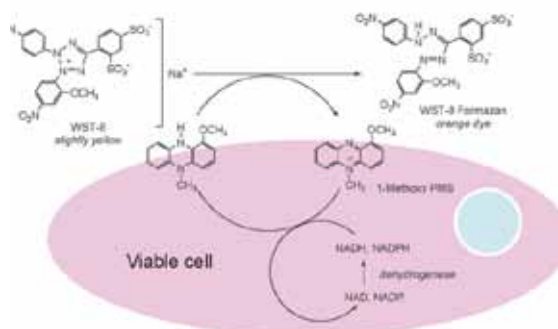


Cell Viability & Cytotoxicity Assay

Cell Counting Kit-8

Cell Counting Kit-8 is a sensitive colourimetric assay for cell viability. This ready-to-use solution has low cytotoxicity making it ideal for use with expensive cell lines, eg. primary cells.

See page 10



Exclusive Discounts Inside!

www.nbsbio.co.uk

Prices Inside!

SafeView DNA Stain

The Safe Alternative to Ethidium Bromide

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

Now with a new formulation offering greater detection sensitivity!

SafeView is a safe nucleic acid stain for the detection of dsDNA, ssDNA and RNA in Agarose gel. This dye replaces Ethidium Bromide (toxic, potential mutagen) commonly used in Agarose gel electrophoresis.

“

SafeView does indeed substitute Ethidium Bromide, with no alterations needed of any sort to current working procedures... great product.

Genetic Marker Services, Brighton

”

Safe to Use

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.

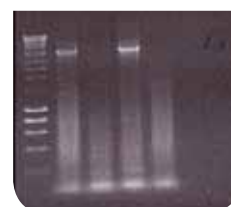
Sensitive & Convenient

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.



(above)
PCR product stained with SafeView stain.

(below)
Same PCR product stained with Ethidium Bromide.



£35.00 / 1ml
£140.00 / 5ml

• Samples Available •



Ordering Information

NBS-SV1	SafeView Nucleic Acid Stain	1ml	£35.00
NBS-SV5	SafeView Nucleic Acid Stain	5x1ml	£140.00

Agarose SG

Low EEO Agarose for Routine Analysis

- ✓ Low EEO (<0.13)
- ✓ High Mechanical Strength
- ✓ Low Absorption of Staining Reagents

Agarose SG is an all-purpose Agarose ideal for nucleic acid analytical/preparative work, blotting and routine applications. Agarose SG has a low EEO allowing for shorter electrophoretic runs without compromising resolution while the gel has a high mechanical resistance for easier and more reliable handling.

Agarose SG has low absorption of staining agents and high thermal stability due to high hysteresis (difference between gelling and melting temperatures), it has excellent transparency of the gel and high visibility. The low cost of Agarose SG makes it the ideal performance Agarose for general use in electrophoresis.



1% Agarose SG Gel (stained using EtBr)

£140 / 500g

Ordering Information

NBS-AG500	Agarose SG	500g	£140.00
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Moisture	<7%
Ash	<4%
EEO*	0.05-0.13
Sulphate	<0.1%
Clarity 1.5% (NTU)	<3
Gel Strength 1% (g/cm ²)	>1200
Gel Strength 1.5% (g/cm ²)	>2500
Gelling Temperature 1.5% (°C)	36 ± 1.5
Melting Temperature 1.5% (°C)	88 ± 1.5
DNase/RNase	None Detected
DNA Resolution > 1000bp	Finely Resolved
Gel Background	Very Low

*EEO (electroendosmosis)

Samples
Available

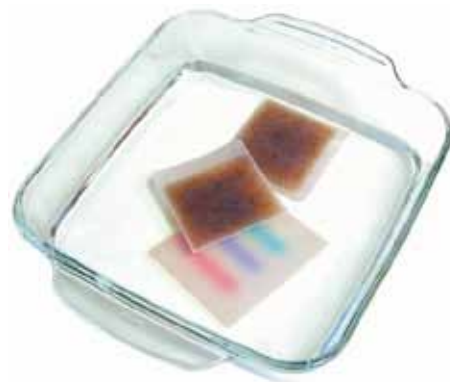
**Also available in
custom quantities**

Destaining Bags

For Removal of Ethidium Bromide from Solution

- ✓ Safely Remove Ethidium Bromide from Solution
- ✓ Each Bag will Remove up to 5mg of EtBr
- ✓ Minimises Exposure to Toxic Materials
- ✓ Easiest EtBr Removal Available

Destaining bags safely remove Ethidium Bromide from solution during an overnight treatment. Each bag extracts up to 5mg of Ethidium Bromide from solution thus minimising the exposure of research personnel to this toxic material. The special absorbent mixture retains dye molecules in a convenient bag for removal and incineration.



Samples Available

Performance Evaluation with Typical Results

Starting Concentration ($\mu\text{g/ml}$) 1 Liter of Solution	Beginning A_{285}	A_{285} at 1 Hour (% removed)	A_{285} at 2 Hours (% removed)	A_{285} at 4 Hours (% removed)	A_{285} after Overnight incubation (5% removed)
0.05	0.0089	0.0061 (32%)	0.0025 (72%)	N/A	0.0008 (92%)
0.5	0.0586	0.0205 (65%)	0.0142 (76%)	N/A	0.0001 (99%)
1.0	0.1186	0.0443 (63%)	0.0291 (75.5%)	0.0113 (89%)	0.0025 (98%)
8.8	0.8908	0.0692 (92%)	0.0464 (95%)	0.0413 (95%)	N/A

Also suitable for use with Coomassie Blue

Ordering Information

E732-25 Destaining Bags 25 Bags £54.50

DNA Ladder Plus

Ready-to-Use Ladders for Electrophoresis

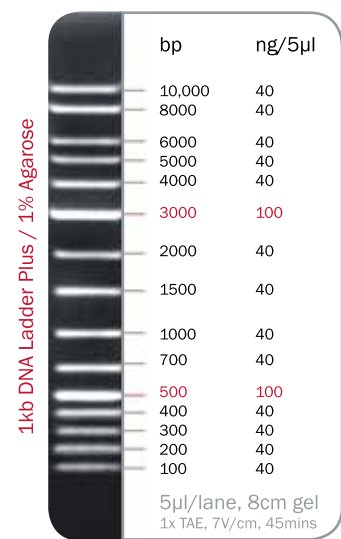
- ✓ Bright, Sharp Bands for Accurate Sizing
- ✓ Precise DNA Concentrations
- ✓ Ready-to-Use

Introducing our new range of ready to use DNA ladders for electrophoresis. These plus range ladders are available in 50bp, 100bp and 1kb size and offer precise standard and bright reference bands. All fragments are precisely mixed and quantified during production and the ladders are supplied premixed with loading dye.

Ladder Ranges

50bp Ladder Plus	50 - 1000bp
100bp Ladder Plus	100 - 3000bp
1kb Ladder Plus	100 - 10,000bp

£29.50 / 50µg



50bp

100bp

1 kb

Samples Available

Ordering Information

50bp Ladder Plus	NBS-LP50	50µg	£29.50
100bp Ladder Plus	NBS-LP100	50µg	£29.50
1kb Ladder Plus	NBS-LP1K	50µg	£29.50

PCR Product
Enzymatic Reactions
Solubilised Gel Slice
Lysed Cells



Bind



Wash



Elute



Pure DNA



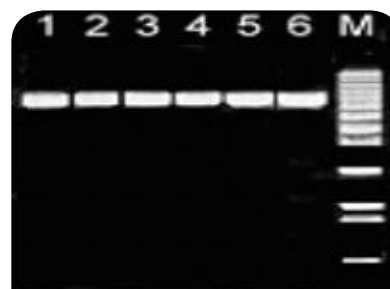
Spin Column Purification

For High Quality, Low Cost Purification

Our Spin Column Kits have been designed for fast, high quality extraction & purification of DNA from a variety of sources. These kits have been extensively tested and supplied to universities across the UK.

Plasmid DNA Miniprep Kit

This kit provides a simple and efficient method for mini plasmid DNA purification from bacterial culture. Plasmid DNA is selectively absorbed by the spin column and impurities such as proteins, salts and nucleotides are washed away. Plasmid DNA can be eluted in a small volume of Tris buffer. The whole procedure takes about 12 minutes and no phenol/chloroform or ethanol precipitations are required. Purified plasmid DNA can be used for all downstream applications including PCR, DNA sequencing, enzyme digestion and transformation. Note: This kit is used for preparations of up to 20µg of pure plasmid DNA.



Gel electrophoresis of plasmid DNA purified using Spin Column Plasmid DNA Miniprep Kit. Lanes 1-6: purified plasmid DNA, Lane 7: DNA marker.

Ordering Information

4 Kits
1 Price Structure

50 prep = £36
100 prep = £67
250 prep = £168

Plasmid DNA Miniprep
PCR Purification
Gel Extraction
Reaction Cleanup

NBS-5005	Spin Columns + Collection Tubes	100 pack	£20.00
NBS-363	Spin Column PCR Purification Kit	50 preps	£36.00
NBS-364	Spin Column PCR Purification Kit	100 preps	£67.00
NBS-664	Spin Column PCR Purification Kit	250 preps	£168.00
NBS-3652	96 Well Spin Column PCR Purification Kit	2 x 96 well plates	£139.00
NBS-365	96 Well Spin Column PCR Purification Kit	5 x 96 well plates	£300.00
NBS-367	Spin Column Reaction Cleanup Kit	50 preps	£36.00
NBS-368	Spin Column Reaction Cleanup Kit	100 preps	£67.00
NBS-668	Spin Column Reaction Cleanup Kit	250 preps	£168.00
NBS-3692	96 Well Cleanup Miniprep Kit	2 x 96 well plates	£139.00
NBS-369	96 Well Cleanup Miniprep Kit	5 x 96 well plates	£300.00
NBS-353	Spin Column Gel Extraction Kit	50 preps	£36.00
NBS-354	Spin Column Gel Extraction Kit	100 preps	£67.00
NBS-654	Spin Column Gel Extraction Kit	250 preps	£168.00
NBS-413	Spin Column Plasmid DNA Miniprep Kit	50 preps	£36.00
NBS-414	Spin Column Plasmid DNA Miniprep Kit	100 preps	£67.00
NBS-614	Spin Column Plasmid DNA Miniprep Kit	250 preps	£168.00
NBS-82014	5 Minutes Spin Column Plasmid DNA Miniprep Kit	50 preps	£51.00
NBS-4634	Spin Column Plasmid DNA Mediprep Kit	4 preps	£41.00
NBS-464	Spin Column Plasmid DNA Mediprep Kit	20 preps	£180.00
NBS-4654	Spin Column Plasmid DNA Maxiprep Kit	4 preps	£46.00
NBS-466	Spin Column Plasmid DNA Maxiprep Kit	20 preps	£216.00
PT81914	Single Colony Screening Kit (PCR-EZ A2)	100 preps	£80.00
NBS-4172	96 Well Classic Plasmid DNA Miniprep Kit	2 x 96 well plates	£139.00
NBS-417	96 Well Classic Plasmid DNA Miniprep Kit	5 x 96 well plates	£300.00

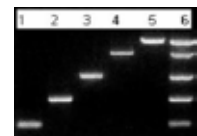
PCR Purification Kit

This kit utilises membrane technology which selectively absorbs up to 20µg PCR products or DNA fragments in the presence of a specialised binding buffer. Primers (<40-mer), nucleotides, enzymes, mineral oil and all other impurities are not able to bind and are hence eliminated from the column. PCR products or DNA fragments are eluted readily in elution buffer.



Gel Extraction Kit

This kit provides a simple and efficient method for DNA extraction from Agarose gel. It is also an ideal tool to desalt the solution as well as to remove residual organic solvents or unincorporated nucleotides or primers (<40-mer) from reaction mixture containing DNA. The kit utilises a spin column technology which selectively absorbs up to 20µg DNA fragments in the presence of specialised binding buffers.



New

Spin Columns (separate)

We now supply spin columns/collection tubes separately, these are compatible with our own range of Spin Column kits as well as the Qiagen brand kits.



Spin Columns +
Collection Tubes

100 pack = £20

Also Compatible
with Qiagen Kits

Ordering Information (cont..)

NBS-4152	96 Well Spin Column Plasmid DNA Miniprep Kit	2 x 96 well plates	£139.00
NBS-415	96 Well Spin Column Plasmid DNA Miniprep Kit	5 x 96 well plates	£300.00
PT92043	96 Well Plate Single Colony Plasmid DNA Miniprep Kit	2 x 96 well plates	£178.00
PT92044	96 Well Plate Single Colony Plasmid DNA Miniprep Kit	5 x 96 well plates	£384.00
NBS-71918	Spin Column Endotoxin-Free Plasmid Miniprep DNA Kit	50 preps	£72.00
NBS-71919	Spin Column Endotoxin-Free Plasmid Miniprep DNA Kit	250 preps	£360.00
DT71718	Endotoxin-Be-Gone Solution	25 ml	£134.00
NBS-467	Spin Column Yeast Plasmid DNA Miniprep DNA Kit	10 preps	£21.00
NBS-468	Spin Column Yeast Plasmid DNA Miniprep DNA Kit	50 preps	£96.00
TT92041	Tiny Sample DNA/RNA Recovery Kit	50 preps	£111.00
NBS-423	Spin Column Genomic DNA Miniprep Kit, Bacteria	50 preps	£62.00
NBS-424	Spin Column Genomic DNA Miniprep Kit, Bacteria	250 preps	£312.00
SK1292	96-Well Plate Bacterial Genomic DNA Miniprep Kit	2 x 96 well plates	£178.00
SK1295	96-Well Plate Bacterial Genomic DNA Miniprep Kit	5 x 96 well plates	£384.00
PT71816	Rapid Plant Genomic DNA Extraction Kit	100 preps	£51.00
PT71817	Rapid Plant Genomic DNA Extraction Kit	500 preps	£240.00
NBS-425	Spin Column Genomic DNA Miniprep Kit, Plant	50 preps	£84.00
NBS-426	Spin Column Genomic DNA Miniprep Kit, Plant	250 preps	£408.00
PT92035	Spin Column Genomic DNA Maxiprep Kit	4 maxi-preps	£82.00
PT92036	Spin Column Genomic DNA Maxiprep Kit	20 maxi-preps	£357.00
HT71915	Herbal Genomic DNA Extraction Kit	20 preps	£29.00
HT71916	Herbal Genomic DNA Extraction Kit	100 preps	£134.00
FT71415	Fungal (Yeast) Genomic DNA Extraction Kit	50 preps	£91.00
FT71416	Fungal (Yeast) Genomic DNA Extraction Kit	250 preps	£439.00
FT82012	Spin Column Fungal (Yeast) Genomic DNA Miniprep Kit	50 preps	£173.00

Premixed Solutions

Lower Cost than

Next Gel Protocol



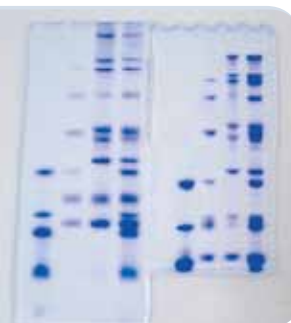
Next Gel Solution

- ✓ High Resolution - Resolve 14.2kDa Band from 14.4kDa Band on Mini-gel
- ✓ Broad Range - Separate 3.5kDa & 212kDa Proteins on the Same Gel
- ✓ Stability - Room Temperature Stability for >12 months
- ✓ Speed - Pour Acrylamide Gel in One Minute

Next Gel is a ready-to-pour liquid stable solution of acrylamide for SDS-PAGE. The proprietary chemistry of Next Gel eliminates the need for a stacking gel - simply add APS and TEMED to Next Gel, pour, insert comb and allow it to polymerise.

The gradient-like properties of the Next Gel matrix slow the rate of progression of proteins through the electrophoretic field enabling the resolution of small peptides and high molecular weight proteins within the same gel. The gels are fully compatible with all standard electrophoresis equipment, SDS-PAGE staining procedures and downstream applications including 2D electrophoresis, Western blot transfer, protein sequencing and MALDI analysis.

Protein MW Markers (Low, Mid/Low, Wide and mixture of all 3) were loaded on a Next Gel (10%) or comparable gel from a competitor. Gels were stained with Coomassie Stain and destained. The Next Gel shows full range proteins resolved from 212,000 to 3,500 Daltons with unprecedented separation, without the need for gradient gels. The competitor gel provided satisfactory separation of proteins from 212,000 to 14,000 Daltons only and with less resolution and clarity.



Each 100ml of Next Gel is sufficient to prepare 10 mini-gels
 Next Gel is supplied with 20X Running Buffer

Ordering Information

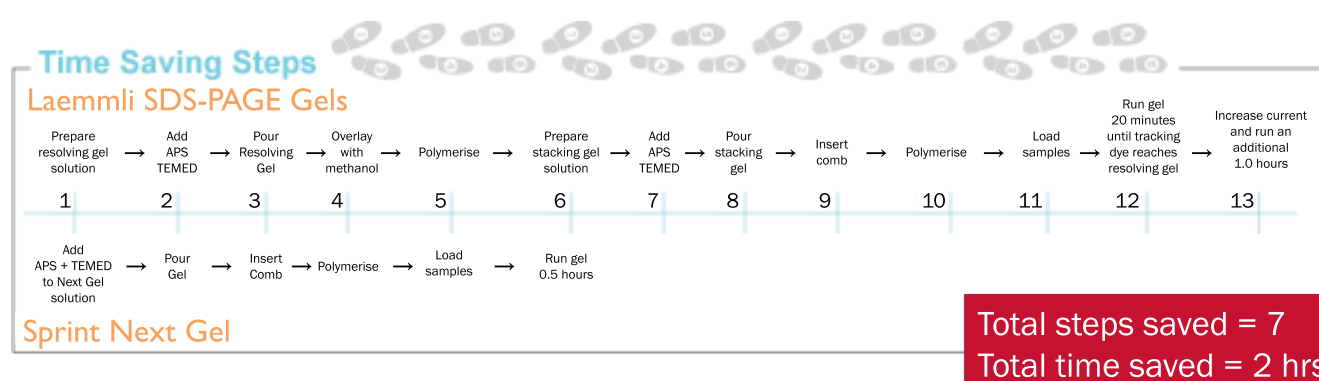
- M254-100ML
- M254-500ML
- M255-100ML
- M255-500ML
- M256-100ML
- M256-500ML
- M257-100ML
- M257-500ML
- M258-100ML
- M258-500ML
- M312-100ML
- M312-500ML
- M311-100ML
- M311-500ML

for SDS-PAGE

Precast Gels, More Convenient than Pouring Your Own

Sprint Next Gel

- ✓ Sprint Next Gel is ideal for Western Blotting and any situation that requires rapid analysis of protein samples by electrophoresis.



Next Gel Solution, 5%	100ml	£25.50
Next Gel Solution, 5%	500ml	£85.50
Next Gel Solution, 7.5%	100ml	£25.50
Next Gel Solution, 7.5%	500ml	£85.50
Next Gel Solution, 10%	100ml	£25.50
Next Gel Solution, 10%	500ml	£85.50
Next Gel Solution, 12.5%	100ml	£25.50
Next Gel Solution, 12.5%	500ml	£85.50
Next Gel Solution, 15%	100ml	£25.50
Next Gel Solution, 15%	500ml	£85.50

Sprint Next Gel, 10%	100ml	£30.50
Sprint Next Gel, 10%	500ml	£112.50
Sprint Next Gel, 12.5%	100ml	£30.50
Sprint Next Gel, 12.5%	500ml	£112.50

Sprint Next Gel is a ready-to-pour acrylamide solution optimised to reduce running time on standard SDS-PAGE mini-gels. Sprint Next Gel allows you to cast and run a gel in under 45 minutes. It is ideal for Western Blotting as well as any situation that requires rapid analysis of protein samples by electrophoresis.

Also Available

Fluorescent Sprint Next Gel

All the features of Sprint Next Gel but with the added convenience of an incorporated fluorescent stain for rapid visualisation! See website for details...

Cell Counting Kit-8

Low Cytotoxicity Cell Viability Assay

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

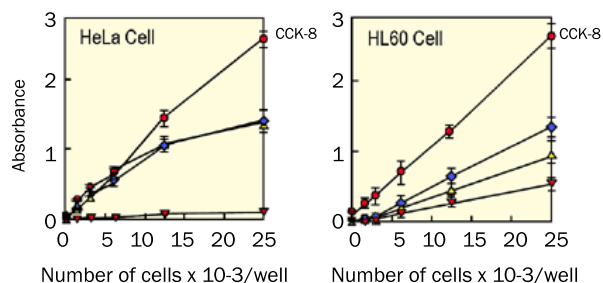


1. Add CCK-8 2. Incubate 3. Read O.D.

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.



Toxicity of Assay Solutions:

Comparison Between CCK-8 and Competitor Kit



Cell Counting Kit-8



Cell viability assay from company R

20% Discount (1000 assay pack size only)
quote: B2011-20%

Ordering Information

Cell Counting Kit-8

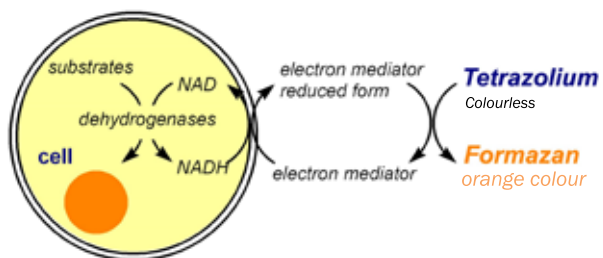
CK04-11	1000 assay	£199.50
CK04-13	3000 assay	£412.50
CK04-20	10,000 assay	£1,097.50



Cell Counting Kit-SK

High Sensitivity Cell Viability Assay

Cell Counting Kit-SK (CCK-SK) is an alternative kit to Cell Counting Kit-8 for cells or cell lines with low metabolism. The O.D. of the CCK-8 for leukocyte cells is sometimes very low (eg. 0.2-0.4 after 2-4 hours incubation) because of lower metabolism compared with adherent type cells. CCK-SK enables a shorter incubation time to obtain a higher O.D. increase within 30 min to 1 hour.



CCK-SK is suitable for cell lines that require high sensitivity such as leucocyte or leukemia cell lines

Ordering Information

CK10-11	Cell Counting Kit-SK	1000 assay	£209.50
CK10-13	Cell Counting Kit-SK	3000 assay	£425.50

20% Discount
(1000 assay pack size only)
quote: B2011-20%

MTT Stable Solution

Ready-to-Use MTT, Suitable for Long Term Storage

- ✓ Stable for >12 Months at 4°C
- ✓ No Preparation Required
- ✓ 5mg/ml Concentration

30% Discount
(1000 assay pack size only)
quote B2011-30%



- 1 Fresh MTT in PBS
- 2 MTT Stable solution after 2 months at 40°C
- 3 MTT in PBS after 2 months

Ordering Information

CK11-11	MTT Stable Solution	1000 assays	£127.50
CK11-15	MTT Stable Solution	5000 assays	£311.00
CK11-20	MTT Stable Solution	10,000 assays	£523.00

Lenti-SV40 Virus

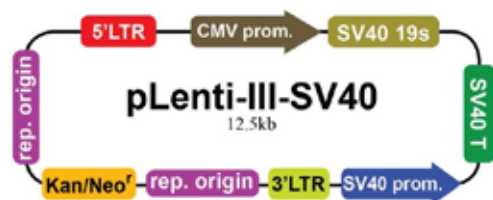
The Simplest and Most Reliable Agent for Immortalisation



SV40 T antigen has been shown to be the simplest and most reliable agent for the immortalisation of many different cell types in culture. For the most part, viral genes achieve immortalisation by inactivating the tumor suppressor genes (p53, Rb, and others) that can induce a replicative senescent state in cells. Recent studies have also shown that SV40 T antigen can induce Telomerase activity in the infected cells.

Lenti-SV40 Virus

Vector Map



Description

Lenti/SV40 virus is a recombinant lentivirus containing SV40 whole gene. 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. It is not always necessary to use a selection marker for most primary cell immortalisations, especially for epithelial cells that normally have less than 10 population doubling cycles in culture. The unimmortalised cells will not survive and only the immortalised cells will thrive

Lenti-SV40 T Virus

Lenti-SV40 T virus is a recombinant lentivirus containing SV40 large T antigen. SV40 large T antigen is a multifunctional protein that is essential for the replication and expression of the viral genome, as well as for the establishment and maintenance of cell transformation and tumor induction.

Lenti-SV40 T+t Virus

Lenti-SV40 T+t virus is a recombinant lentivirus containing SV40 large and small T antigen. SV40 large T antigen is described above, SV40 small T antigen is thought to play an important role in viral transformation and possibly in lytic infection.

Ordering Information

G203	Lenti-SV40 Virus	10ml	£585.50
G200	Lenti-SV40 T Virus	10ml	£585.50
G200	Lenti-SV40 T+t Virus	10ml	£585.50

Also Available

- Adenovirus
- hTERT
- Retrovirus
- Cell Specific Products

DNAfectin

High Efficiency Transfection Reagent

- ✓ Low Cytotoxicity
- ✓ Suitable for Primary Cells

£96.50 / ml

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.

Ordering Information

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

Cell Line	Efficiency	Formulation
A2780	70-75%	DNAfectin2100
C33A	90%	DNAfectin2100
CB3	25%	DNAfectin2100
HeLa	80-90%	DNAfectin2100
HepG2	40%	DNAfectin2100
Jurkat	25%	DNAfectin2100
SHEP	90%	DNAfectin2100
Calu-6	70-75%	DNAfectin2200
MCF7	80%	DNAfectin2200
Raji	50%	DNAfectin2200
SK-MEL-3	60%	DNAfectin2200
TE671	90%	DNAfectin2200
Cos1	70-80%	DNAfectin2300
Jeg-13	80%	DNAfectin2300
MDA-MB-468	75%	DNAfectin2300
T-47D	80-85%	DNAfectin2300
Y-1	80%	DNAfectin2300
HEY	95%	DNAfectin2400
NeuroA2	90%	DNAfectin2400
Rat2	85%	DNAfectin2400
T24	85%	DNAfectin2400
U2OS	80%	DNAfectin2400

Please enquire for other tested cell lines...

Custom siRNA

Low Price, HPLC Purified Oligos

- ✓ Fantastic Low Price
- ✓ 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.



free design

£46.00 / 5.0nmol

free negative control

Ordering Information

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

CDM-HD Serum Replacement

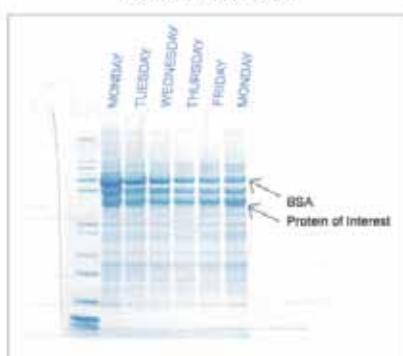
Chemically Defined & Protein Free

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

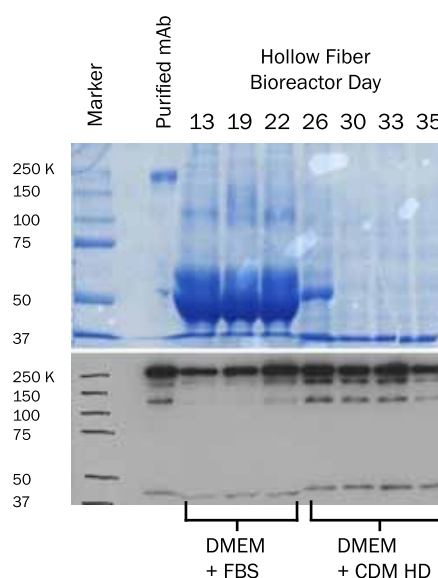
CDM-HD Serum Replacement is a chemically defined, protein free serum replacement that permits any basal medium such as DMEM or RPMI to be used without serum.

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.

Demonstration of Adaptation to Serum-free Medium



SDS-Page gel of successive harvests from the ECS of a recombinant protein secreted by a 293 cell line. Initial medium is DMEM with 10% FBS (Monday). Medium is changed from DMEM-FBS to Hyclone serum free medium for 293 cells. Note the diminution of serum proteins, especially BSA in the harvest from the ECS while the protein of interest remains constant or increases as the adaptation continues. Protein of interest is higher in concentration on Mondays as it has accumulated over the weekend to a higher level.



CDM-HD is part of the complete hollow fiber cell culture range we supply. This range includes the duet pump, cartridges and accessories.

Designed for...

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

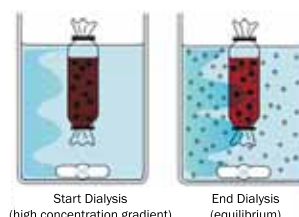
Ordering Information

CDM-HD CDM-HD Serum Replacement Powder for 1L £29.50

Biotech Dialysis Tubing

Biotech Grade CE and RC Tubing, Discs & Sheets

Biotech membranes are specifically engineered for more critical separation constraints in which an ultrapure membrane with a precise MWCO is required. Since these synthetic membranes are manufactured using a process without metal salts, no pre-treatment or cleaning is required. Biotech membranes are available in 2 membrane types:



- Cellulose Ester (CE)
- Regenerated Cellulose (RC)



Cellulose Ester (CE)

Wide range of selectivity and purity
pH Range: 2-9
Temperature Limit: 37°C
Organic Resistance: Fair

Regenerated Cellulose (RC)

Combined selectivity, purity, resistance
pH Range: 2-12
Temperature Limit: 60°C
Organic Resistance: Good

Ordering Information

128610	SPECTRA/POR BIOTECH RC 10,000 MWCO 10MM	15M/PKG	£314.00
128616	SPECTRA/POR BIOTECH RC 10,000 MWCO 16MM	15M/PKG	£314.00
128620	SPECTRA/POR BIOTECH RC 25,000 MWCO 10MM	15M/PKG	£314.00
128626	SPECTRA/POR BIOTECH RC 25,000 MWCO 16 MM	15M/PKG	£314.00
129015	SPECTRA/POR BIOTECH RC 8,000 MWCO 10MM	15M/PKG	£314.00
129020	SPECTRA/POR BIOTECH RC 8,000 MWCO 16MM	15M/PKG	£314.00
129115	SPECTRA/POR BIOTECH RC 15,000 MWCO 10MM	15M/PKG	£314.00
129120	SPECTRA/POR BIOTECH RC 15,000 MWCO 16MM	15M/PKG	£314.00
133110	SPECTRA/POR BIOTECH RC 3.500 MWCO 10MM	15M/PKG	£314.00
133116	SPECTRA/POR BIOTECH RC 3.500 MWCO 16MM	15M/PKG	£314.00
131048	SPECTRA/POR BIOTECH CE 100 - 500 MWCO 10MM	10M/PKG	£340.00
131054	SPECTRA/POR BIOTECH CE 100 - 500 MWCO 16MM	10M/PKG	£389.00
131054T	SPECTRA/POR BIOTECH CE 100 - 500 MWCO 16MM	1M/PKG	£131.50
131057	SPECTRA/POR BIOTECH CE 100 - 500 MWCO 24MM	10M/PKG	£445.50
131060	SPECTRA/POR BIOTECH CE 100 - 500 MWCO 31MM	10M/PKG	£467.00
131084	SPECTRA/POR BIOTECH CE 500 - 1,000 MWCO 10MM	10M/PKG	£340.00
131090	SPECTRA/POR BIOTECH CE 500 - 1,000 MWCO 16MM	10M/PKG	£389.00
131090T	SPECTRA/POR BIOTECH CE 500 - 1,000 MWCO 16MM	1M/PKG	£131.50
131093	SPECTRA/POR BIOTECH CE 500 - 1,000 MWCO 24MM	10M/PKG	£445.50
131096	SPECTRA/POR BIOTECH CE 500 - 1,000 MWCO 31MM	10M/PKG	£467.00
131192	SPECTRA/POR BIOTECH CE 3.500 - 5,000 MWCO 10MM	10M/PKG	£340.00
131198	SPECTRA/POR BIOTECH CE 3.500 - 5,000 MWCO 16MM	10M/PKG	£389.00
131198T	SPECTRA/POR BIOTECH CE 3.500 - 5,000 MWCO 16MM	1M/PKG	£131.50
131201	SPECTRA/POR BIOTECH CE 3.500 - 5,000 MWCO 24MM	10M/PKG	£445.50
131204	SPECTRA/POR BIOTECH CE 3.500 - 5,000 MWCO 31MM	10M/PKG	£467.00
131264	SPECTRA/POR BIOTECH CE 8.000 - 10,000 MWCO 10MM	10M/PKG	£340.00
131270	SPECTRA/POR BIOTECH CE 8.000 - 10,000 MWCO 16MM	10M/PKG	£389.00
131270T	SPECTRA/POR BIOTECH CE 8.000 - 10,000 MWCO 16MM	1M/PKG	£131.50
131273	SPECTRA/POR BIOTECH CE 8.000 - 10,000 MWCO 24MM	10M/PKG	£445.50
131276	SPECTRA/POR BIOTECH CE 8.000 - 10,000 MWCO 31MM	10M/PKG	£467.00
131336	SPECTRA/POR BIOTECH CE 20,000 MWCO 10MM	10M/PKG	£340.00
131342	SPECTRA/POR BIOTECH CE 20,000 MWCO 16MM	10M/PKG	£389.00
131342T	SPECTRA/POR BIOTECH CE 20,000 MWCO 16MM	1M/PKG	£131.50
131345	SPECTRA/POR BIOTECH CE 20,000 MWCO 24MM	10M/PKG	£445.50
131348	SPECTRA/POR BIOTECH CE 20,000 MWCO 31MM	10M/PKG	£467.00
131372	SPECTRA/POR BIOTECH CE 50,000 MWCO 10MM	10M/PKG	£340.00
131378	SPECTRA/POR BIOTECH CE 50,000 MWCO 16MM	10M/PKG	£389.00
131378T	SPECTRA/POR BIOTECH CE 50,000 MWCO 16MM	1M/PKG	£131.50
131381	SPECTRA/POR BIOTECH CE 50,000 MWCO 24MM	10M/PKG	£445.50
131384	SPECTRA/POR BIOTECH CE 50,000 MWCO 31MM	10M/PKG	£467.00
131408	SPECTRA/POR BIOTECH CE 100,000 MWCO 10MM	10M/PKG	£340.00
131414	SPECTRA/POR BIOTECH CE 100,000 MWCO 16MM	10M/PKG	£389.00
131414T	SPECTRA/POR BIOTECH CE 100,000 MWCO 16MM	1M/PKG	£131.50
131417	SPECTRA/POR BIOTECH CE 100,000 MWCO 24MM	10M/PKG	£445.50
131420	SPECTRA/POR BIOTECH CE 100,000 MWCO 31MM	10M/PKG	£467.00
131450	SPECTRA/POR BIOTECH CE 300,000 MWCO 24MM	10M/PKG	£389.00
131450T	SPECTRA/POR BIOTECH CE 300,000 MWCO 16MM	1M/PKG	£131.50
131486	SPECTRA/POR BIOTECH CE 1,000,000 MWCO 16MM	10M/PKG	£389.00
131486T	SPECTRA/POR BIOTECH CE 1,000,000 MWCO 16MM	1M/PKG	£131.50

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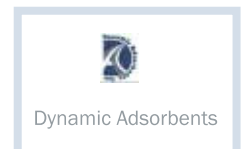
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