

Protein Electrophoresis

Acrylamide and Bis-Acrylamide

For customized electrophoresis applications

Prepare your own solutions with concentrations and ratios for any electrophoresis application

► Pre-weighed powder and powder blends

- › Ultra pure grade with acrylamide purity >99.9%
- › High solubility

► Liquid solutions and pre-mixed liquids

- › Pre-mixed stock solutions eliminate handling of hazardous powdered acrylamide
- › Liquid stable ready-to-use solutions for reproducible and consistent results



See Page 2

Additional Products

NEW

Protein Extraction Kits

- › Total Protein Cell Lysis Kit
 - › One buffer extracts total proteins
 - › Excellent total protein recovery
- › Cytoplasmic/Nuclear Protein Enrichment Kit
 - › Simple protocol
 - › 3 buffers included in Kit
 - › Complete the procedure in under 1.5 hours
- › Mitochondrial Protein Isolation Buffer
 - › Single ready-to-use buffer
 - › Separate mitochondrial proteins from the cytoplasm
 - › Recover mitochondrial proteins in under 1 hour

See pages 4 & 5

NEW

SeraFree™ CyropreservationMedia

- › DMEM or RPMI based, complete Freezing Media
- › Serum-Free
- › Excellent viability and growth after thawing
- › For cultured mammalian cell lines

See Page 7

Additional Biochemicals

- › Protease Inhibitor Cocktails
- › Cell Culture Reagents

See Page 7

NEW

RapidBlock™ 10X Solution

- Block PVDF and nitrocellulose membranes in 5 minutes
- Enhance chemiluminescent signals in Western Blots
- Achieve low backgrounds and reduce cross-reactivity with protein-free buffer

See Page 6



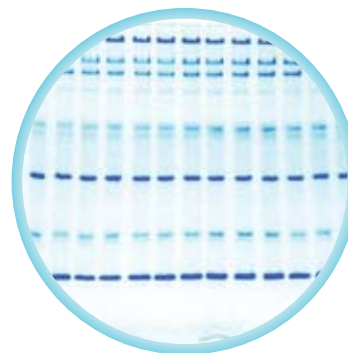
Electrophoresis

Electrophoresis

Acrylamide & Bis-Acrylamide powder and solutions for ultimate application flexibility

Make your own stock solutions with the highest quality Ultra-Pure Grade ingredients

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Acryl-40™ Solution 40% (w/v) acrylamide solution	0132-500ML	500 ml	\$52.90
Bis-2™ Solution 2% (w/v) N,N'-methylenebisacrylamide solution	0832-500ML	500 ml	\$23.80
Acrylamide Powder Purity >99.9%	0341-100G	100 g	\$34.60
	0341-500G	500 g	\$102.40
	0341-1KG	1 kg	\$184.00
Bis-Acrylamide Powder Purity >99.9%	0172-50G	50 g	\$25.40
	0172-100G	100 g	\$36.60
	0172-250G	250 g	\$92.20



Ready-to-use pre-mixed stock powder blends and solutions for convenience and safety



PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Acryl/Bis™ 37.5:1 Solution 40% solution containing 38.96% (w/v) acrylamide monomer and 1.04% (w/v) bis-acrylamide cross-linker	0254-500ML	500 ml	\$58.10
Acryl/Bis™ 37.5:1, Premixed Powder Blend of ultra pure acrylamide and bisacrylamide	0907-40G	40 g	\$28.80
	0907-200G	200 g	\$92.00
Acryl/Bis™ 29:1 Solution 40% solution containing 38.67% (w/v) acrylamide monomer and 1.33% (w/v) bis-acrylamide cross-linker	0311-500ML	500 ml	\$57.20
Acryl/Bis™ 29:1, Premixed Powder Blend of ultra pure acrylamide and bisacrylamide	0673-40G	40 g	\$30.30
	0673-200G	200 g	\$107.80
Acryl/Bis™ 19:1 Solution 40% solution containing 38.0% (w/v) acrylamide monomer and 2.0% (w/v) bis-acrylamide cross-linker	0496-500ML	500 ml	\$51.30
Acryl/Bis™ 19:1, Premixed Powder Blend of ultra pure acrylamide and bisacrylamide	0673-40G	40 g	\$30.30
	0673-200G	200 g	\$107.80

Acrylamide Gel Polymerization

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Ammonium Persulfate	0486-25g	25 g	\$11.70
	0486-100g	100 g	\$24.20
Ammonium Persulfate Tablets (100mg) Each tablet prepares 1 ml of working solution.	K833-100TABS	100 Tablets	\$28.30
TEMED	0761-25ml	25 ml	\$15.20
	0761-50ml	50 ml	\$25.40
	0761-100ml	100 ml	\$43.60

Try the tablets!



Tris Glycine-SDS Running Buffers

Convenient and versatile packaging options for SDS-PAGE



PRODUCT DESCRIPTION	CODE	SIZE	PRICE
TG-SDS Buffer, 10X Liquid Concentrate	0783-1L	1 L	\$28.20
	0783-4L	4 L	\$68.90
	0783-5L	5 L	\$70.80
TG-SDS Buffer, 5X Liquid Concentrate	E696-500ML	500 ml	\$38.30
TG-SDS Buffer, Ready Pack (10X) Each pack makes 1L of 10X Buffer	0147-2PK	2 Packs	\$40.20
TG-SDS Buffer, Powder (1X)	0147-40L	40 L	\$41.60

Tris Tricine-SDS Running Buffers

Maximize resolution of low molecular weight protein and peptides in low percentage gels

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Tris-Tricine-SDS Buffer, Ready-Pack™ Each foil pouch prepares 1L of 10X solution	E457-1PK	1 Pack	\$89.90
Tris-Tricine-SDS Buffer, 10X Liquid concentrate	E449-1L	1 L	\$71.50



Loading Buffers / Dyes

Ready-to-use consistent quality that is guaranteed DNase, RNase and Protease free



PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Loading Buffer, 2X, Protein Contains Glycerol and SDS and 3 tracking dyes	E270-1ML	1 ml	\$9.60
	E270-5ML	5 ml	\$16.10
Protein Gel Loading Buffer, 2X with Pyronin Y Contains glycerol and SDS	M266-5ML	5 ml	\$13.00
Loading Dye Base, 25X For custom dye preparation. Contains bromophenol blue, patent blue, amaranth	E271-1ML	1 ml	\$10.00
	E271-5ML	5 ml	\$21.60

Visit www.amresco-inc.com for additional information and related products, including Protein MW markers, protein and membrane stains

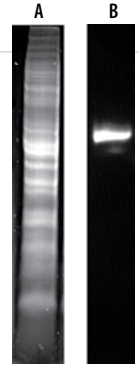
Proteomics

Protein Extraction

Total Cell Protein Lysis Buffer

- › One convenient solution
- › Non-ionic detergent lysis
- › Less denaturing than RIPA lysis buffer

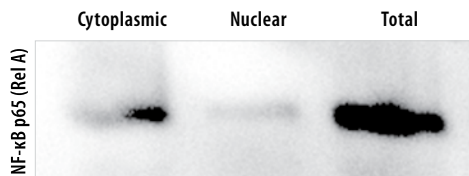
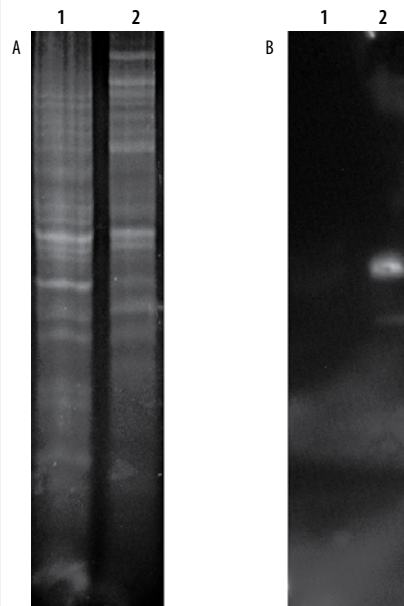
Excellent total cellular proteins recovery. Total Protein (~50ug) isolated from K562 cells using AMRESCO's Total Cell Protein Lysis Buffer was resolved on a 12.5% Fluorescent SPRINT NEXT™ Gel. Total protein was viewed on a UV transilluminator prior to transfer to PVDF (A) and immunoblotting with HSF-1 antibody (B). RapidBlock™ was used for 5 minute blocking of the blot and as the antibody diluent.



Cytoplasmic/Nuclear Protein Enrichment Kit

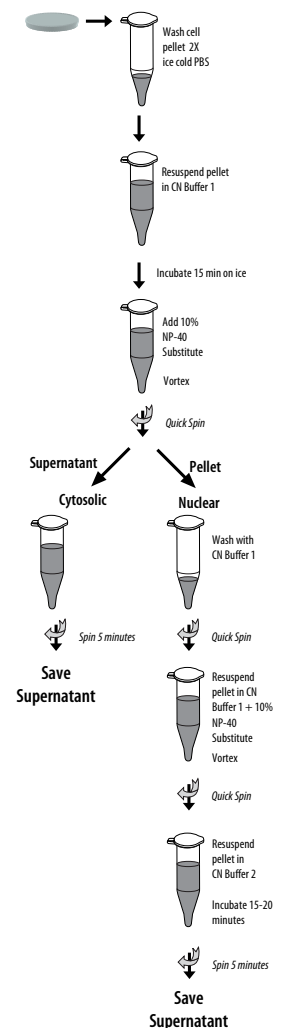
Isolate proteins from the cytoplasm and nucleus of cultured mammalian cells

- › **Minimal cross contamination**
 - › Distinct nuclear and cytoplasmic protein isolates
- › **Flexible**
 - › For adherent and non-adherent cultured cells
 - › Scalable protocol for variable number of cells
- › **Easy and Fast**
 - › Kit includes 3 buffers
 - › Protocol takes less than 1.5 hours
- › **Compatible with downstream applications including western blotting**



Distribution of unstimulated NF-κB in K562 cells. Proteins isolated from K562 cells using AMRESCO's Cytoplasmic/Nuclear Protein Enrichment Kit and Total Cell Lysis Buffer. Proteins (10ug) were loaded onto a 12.5% NEXT™ Gel, transferred to PVDF membrane, followed by immunoblotting with NF-κB p65 (Rel A) antibody.

Nuclear specific antibody demonstrates lack of cross contamination between nucleus and cytoplasm. (1) Cytoplasmic (15ug) and (2) nuclear (12.75ug) proteins isolated from K562 cells using AMRESCO's Cytoplasmic/Nuclear Protein Enrichment Kit were resolved on a 12.5% Fluorescent SPRINT NEXT™ Gel. Total protein bands were viewed in the gel with a UV transilluminator prior to transfer to PVDF (A) and then immuno-blotted with HDAC-1 (nuclear-specific) antibody (B) and detected using VisiGlo™ HRP Chemiluminescent Substrate Kit.

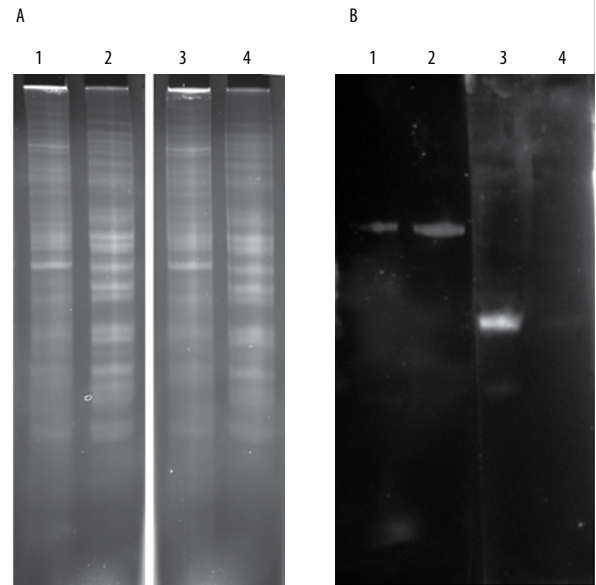


Mitochondrial Protein Isolation Buffer

Isolate proteins from the cytoplasm and mitochondria of cultured mammalian cell lines

- › Simple one buffer procedure
- › Fast - Isolate mitochondrial proteins in less than 1 hour
- › Scalable - For variable number of cultured mammalian cells
- › Clean – Separate highly enriched mitochondrial fraction from the cytosol
- › Compatible – Isolated mitochondrial proteins can be used for Western blotting, ELISA and other assays.

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Total Protein Cell Lysis Buffer For 20 isolations	M329-10ML	10ml	\$80.00
Cytoplasmic/Nuclear Protein Enrichment Kit For 20 extractions	M330-KIT	1 Kit	\$105.00
Mitochondrial Protein Isolation Buffer For 20 isolations	M328-30ML	30 ml	\$85.00



AMRESCO's Mitochondrial Protein Isolation Buffer separates the mitochondrial proteins from the subcellular compartment. Mitochondrial (lanes 1, 3) and cytosolic (lanes 2, 4) proteins isolated from K562 cells using AMRESCO's Mitochondrial Isolation Buffer. 10ug of protein was loaded in each lane and separated on a 12.5% Fluorescent SPRINT NEXT™ Gel (M318). (A) Total protein was viewed on a transilluminator and then transferred to nitrocellulose for immunoblotting. Blots were blocked 5 minutes in 1X RapidBlock™ (M325) Solution, then incubated with antibody to B-tubulin (1,2) or Endo G (C-term) (3,4) diluted in RapidBlock™. Blots were washed in TBS/0.1% Tween® 20 followed by incubation with HRP- conjugated secondary antibody diluted in RapidBlock™. AMRESCO's VisiGlo™ HRP Plus Chemiluminescent Substrate kit (N219-Kit) was used to detect the labeled proteins (B).

Protease Inhibitor Cocktails

AMRESCO offers a comprehensive selection of protease inhibitors that suppress the activity of a broad spectrum of proteolytic enzymes

- › Individual inhibitors - Broad range of specificities available
- › Cocktails - General or targeted to specific types of organisms including bacteria, plant and mammalian
- › Animal-free inhibitors - Available for research and production applications requiring reagents from non-animal sources

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
Protease Inhibitor Cocktail, General Use	M221-1ML	1 ml	\$38.00
Protease Inhibitor Cocktail, 100X, General Use with EDTA	M222-1ML	1 ml	\$38.00
Protease Inhibitor Cocktail, Mammalian	M250-1ML	1 ml	\$38.90
Protease Inhibitor Cocktail, Bacterial	M306-5ML	5 ml	\$43.90
Protease Inhibitor Cocktail, Plant	M307-1ML	1 ml	\$38.00

Visit www.amresco-inc.com for additional information and related products, including individual protease inhibitors, Western Blotting kits and reagents

Blocking Solutions

NEW

RapidBlock™ Solution, 10X

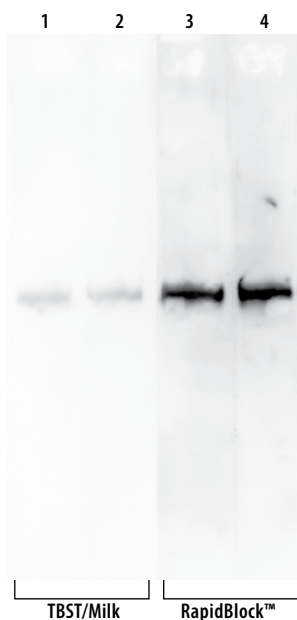
Reduce blocking time to 5 minutes AND enhance the chemiluminescent signal

› Rapid – Efficient membrane blocking in only 5 minutes

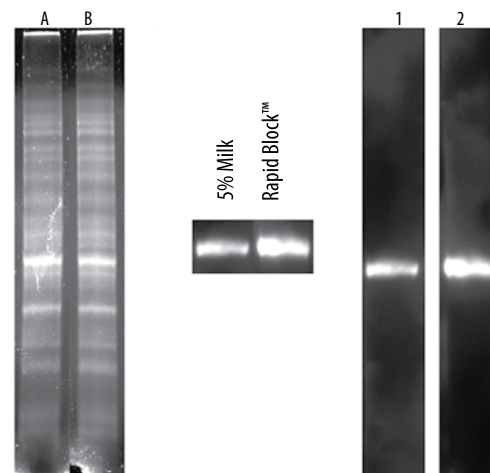
- › Save an hour in your Western blotting procedure
- › One complete solution does the job

› Protein-free

- › Eliminate potential cross reactivity and increase antigen availability



RapidBlock™ time course for optimal chemiluminescent signal. Cytoplasmic proteins from K562 cells were loaded on a 12.5% Fluorescent SPRINT NEXT™ Gel (M318), visualized, then transferred to PDVF membrane. Membrane strips were blocked 5 or 30 minutes in either TBST/5% non-fat dry milk (lanes 1 and 2, respectively) or 1X RapidBlock™ Solution (lanes 3, 4 respectively). The strips were probed with anti-B-tubulin and detected with VisiGlo™ HRP Plus (N219-Kit). Results demonstrate that 5 minute blocking in RapidBlock™ is sufficient, and a increased signal is observed compared to blocking in TBST/milk.



Five minute blocking in protein-free RapidBlock™ Solution enhances signal. 10ug of cytoplasmic protein isolated from K562 cells with AMRESCO's Cytoplasmic/Nuclear Protein Enrichment Kit was loaded per lane on a 12.5% Fluorescent SPRINT NEXT™ Gel (M318) (A,B). Total protein was visualized by UV transillumination and then transferred to PVDF membrane. The membrane was cut into strips and blocked 5 minutes in either TBST/5% non-fat dry milk (1) or AMRESCO's new RapidBlock™Solution (2). The blots were probed with Beta-tubulin antibody diluted in their respective blocking solutions, followed by washes with with TBS/0.1% Tween® 20 and incubation with HRP-conjugated secondary antibody diluted in their corresponding blocking solutions. Blots were washed and detected with VisiGlo™ HRP Plus Chemiluminescent Substrate Kit (N219-Kit). Inset demonstrates the enhanced signal seen with 5 minutes of blocking in RapidBlock™.

“ This solution saved approximately an hour from the Western procedure, cutting blocking time from an hour down to 5 minutes. It is also advantageous not to have to use BSA at all in the procedure ”

Jennifer Fishovitz
Dept of Chemistry
Case Western Reserve University

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
RapidBlock™ Solution, 10X	M325-100ML	100 ml	\$98.50

Visit www.amresco-inc.com for additional information and related products, including Western Blotting reagents and blocking buffers.

Serum-Free Cell Freezing Media

Ready-to-use freezing media for cryopreservation of adherent and suspension cultured cells

- › Batch-to-batch reproducibility and reliability
- › Comparable cell viability and growth after thawing to serum containing media for many cell lines
- › Use with any standard freezing protocol
- › Sterile and endotoxin tested
- › 2 convenient sizes for large or small sample sizes

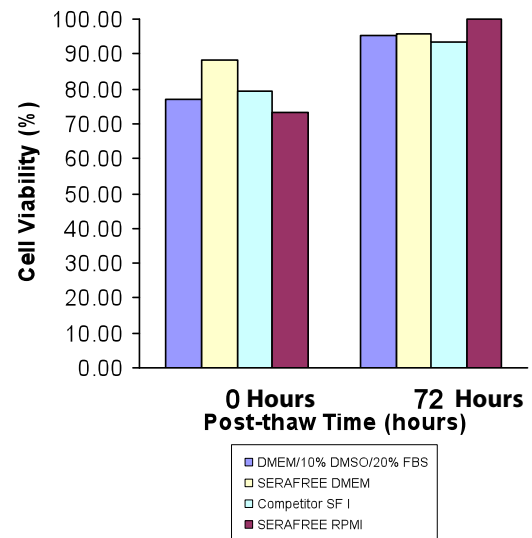
NEW AMRESCO offers two serum-free formulations

SeraFree™ DMEM Cryopreservation Media

SeraFree™ Cryopreservation Media (RPMI)

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
SeraFree™ Cryopreservation Media (RPMI)	N655-50ML	50 ml	\$105.10
	N655-6x5ML	6x5 ml Tubes	\$105.10
SeraFree™ DMEM Cryopreservation Media	N676-50ML	50 ml	\$105.10
	N676-6x5ML	6x5 ml Tubes	\$105.10

Post-thaw Cell Viability of HeLa Cells After Storage in SeraFree™ Cryopreservation Media



Performance of AMRESCO SeraFree™ Cryopreservation Medias rival serum-containing media. 1x10⁶ HeLa cells were frozen in various cryopreservation medium, including AMRESCO's DMEM and RPMI SeraFree™ media, serum-containing freezing media and a competitor's serum-free freezing media. Thawed cells were counted using standard trypan blue exclusion assay.

Related Products for Cell Culture

PRODUCT DESCRIPTION	CODE	SIZE	PRICE
DMSO (Dimethyl Sulfoxide) 5 individual 10ml tubes, Sterile and endotoxin < 0.1 EU/ML	N182-5x10ML	5 x 10 ml	\$58.30
Trypan Blue 0.4% Solution Sterile, ready-to-use solution	K940-100ML	100 ml	\$12.20
Quick-View™ Fluorescent Viability Stain	N600-5ML	5 ml	\$82.80
Glycerol, Sterile	E520-100ML	100 ml	\$22.20
Glycerol, 20% Sterile Solution	E550-100ML	100 ml	\$31.90
Phosphate Buffered Saline (PBS)	E504-100ML	100 ml	\$21.10
	E504-500ML	500 ml	\$31.70
Trypsin 1:300 Porcine Pancreas	0260-25G	25 g	\$32.80
	0260-50G	50 g	\$42.60
	0260-250G	250 g	\$202.00



Visit www.amresco-inc.com for additional information and related products.



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BULK QUANTITIES & CUSTOM CAPABILITIES

AMRESCO can supply bulk quantities, sizes or a variety of grades of material. We supply custom packaging & formulations, which can meet your individual specifications. Specializing in production scale quantities and custom manufactured products, AMRESCO can support your individual company needs from pilot programs up to and through full-scale production requirements. We can produce materials with the exact composition, properties, and purity to fulfill your needs.

Contact Our Bulk/OEM Sales Division for
Additional Information at:
800-829-2802

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www.amresco-inc.com



2009 Exhibitor Tradeshow Schedule

AACR 100th Annual Meeting

Denver, CO

April 18-22

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