

**PROTEIN ANALYSIS
& DETECTION**

Enhanced Detection

Consistent Results

Blotting from Transfer
to Development



SAME PURE PRODUCT NEW PURE BRAND.

Together, VWR and AMRESCO deliver a new life science brand that combines VWR's extensive brand recognition and AMRESCO's purity solutions – VWR Life Science AMRESCO.

Delivering purity through quality, convenience, and performance to better enable science.

NEXT GEL® Solutions for Denaturing Polyacrylamide Gel Electrophoresis

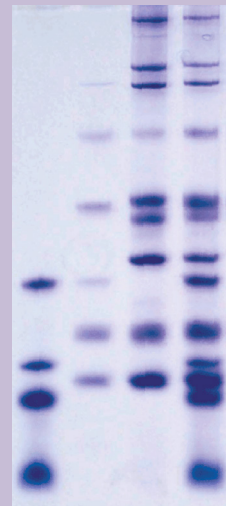
VWR Life Science AMRESCO's NEXT GEL solutions for denaturing gel electrophoresis are comprised of acrylamide, bisacrylamide, gel buffer, and SDS. These products not only save time for gel preparation, but also extend the separation matrix for electrophoresis, enabling the resolution of small peptides and high molecular weight proteins in the same gel.

The NEXT GEL solutions have been formulated to reliably separate proteins and are fully compatible with standard SDS-PAGE applications, such as 1D and 2D gel electrophoresis, Western blotting, protein sequencing, MALDI analysis, and common staining methods.

NEXT GEL solutions are available in multiple acrylamide percentages and are sold with sufficient running buffer required to run the gels. NEXT GEL Sample Loading Buffer, 4X and NEXT GEL Transfer Buffer, 10X are available separately and are recommended for optimum gel and transfer performance. NEXT GEL products are also fully compatible with VWR AMRESCO's Rapid Transfer Buffer, 10X and Rapid Western Blotting Kits.

- Ready-to-pour SDS polyacrylamide solutions — just add APS and TEMED
- Faster gel casting with no stacking gel required
- Broad range of separation – 3.5kDa and 212kDa on the same gel
- High resolution of protein bands
- Stable longer than 1 year at room temperature

Concentration, %	Size, mL	Cat. No.	Unit
7.5	100	97064-020	Each
7.5	500	97063-022	Each
10.0	100	97063-024	Each
10.0	500	97063-026	Each
12.5	500	97063-030	Each
15.0	100	97064-032	Each
15.0	500	97063-034	Each



Resolution of a wide range of proteins on a 10% NEXT GEL. Low (97063-690, lane 1), Mid/Low (97063-188, lane 2), and Wide (97063-556, lane 3) Range Protein Molecular Weight Markers were loaded on a 10% NEXT GEL individually and as a mixture of all three markers (lane 4). The gel was post-stained with Coomassie® Blue and destained using standard procedures. The NEXT GEL solution shows resolution of proteins from 3.5kDa to 212.0kDa without the need for an acrylamide gradient.

Acrylamide and Bis-Acrylamide

VWR Life Science AMRESCO offers an extensive line of acrylamide and bis-acrylamide pre-weighed powder blends, premixed stock solutions and ready-to-use solutions for customized PAGE of nucleic acid. Ultra pure (> 99.9%) acrylamide and bis-acrylamide powders provide the flexibility to prepare solutions having concentrations and ratios for all electrophoresis applications. Liquid stable blends minimize the handling of neurotoxic acrylamide.

- Ultra-pure powders with acrylamide purity > 99.9%
- High solubility, producing haze-free solutions
- Convenient ready-to-use solutions eliminate hazardous powdered acrylamide handling
- Reproducible and consistent results

Description	Size	Cat. No.	Unit
Acrylamide, Ultra Pure Powder	500 g	97064-568	Each
Acrylamide, Ultra Pure Powder	1 kg	97064-982	Each
Acryl/BIS 19:1, Solution	500 mL	97064-608	Each
Acryl/BIS 19:1, Solution	1 L	97064-990	Each
Acryl/BIS 29:1, Powder	200 g	97064-648	Each
Acryl/BIS 29:1, Solution	500 mL	97064-556	Each
Acryl/BIS 29:1, Solution	1 L	97064-554	Each
Acryl/BIS 37.5:1, Solution	500 mL	97064-542	Each

Reducing Agents

Description	Size, g	Cat. No.	Unit
DL-Dithiothreitol (DTT)	5	97061-340	Each
DL-Dithiothreitol (DTT)	25	97061-338	Each
TCEP Hydrochloride	2	97064-850	Each
TCEP Hydrochloride	10	97064-848	Each

Ponceau S and ProAct™ Membrane Stains

Ponceau S and ProAct are ready-to-use solutions for reversible staining of proteins that have been transferred to PVDF or nitrocellulose. These stains help determine whether transfer of proteins is complete prior to continuing the Western blot procedure. Ponceau S is most widely used, but ProAct offers comparable sensitivity to Ponceau S staining and stains faster.

- Reversible staining of proteins on PVDF and nitrocellulose
- Fast staining and destaining

Description	Size	Cat. No.	Unit
Ponceau S	50 mL	97063-652	Each
Ponceau S	500 mL	97063-650	Each

Stains and Dyes

Description	Size	Cat. No.	Unit
Silver Nitrate	25 g	97064-874	Each
Silver Nitrate	25 g	97064-582	Each
Silver Nitrate	100 g	97064-872	Each
Silver Nitrate	100 g	97064-580	Each
Silver Nitrate	500 g	97064-584	Each

Blocking Agents

Description	Size	Cat. No.	Unit
Albumin, Bovine	25 g	97061-420	Each
Albumin, Bovine	100 g	97061-416	Each
Albumin, Bovine	500 g	97061-422	Each
Albumin, Bovine	1 kg	97061-418	Each
Albumin, Bovine, Crystalline	5 g	97062-508	Each
Albumin, Bovine, Crystalline	10 g	97062-506	Each
Bovine Serum Albumin, 20% Solution	50 mL	97063-630	Each
Bovine Serum Albumin, 30% Solution	50 mL	97063-626	Each
Bovine Serum Albumin, 30% Solution	500 mL	97063-624	Each
Nonfat Powdered Milk, Proteomics Grade	10 Packs	97063-958	Each

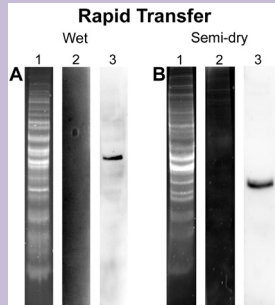
Rapid Transfer Buffer, 10X

Efficiently transfer proteins to PVDF or nitrocellulose membranes in just 10–20 minutes

- Methanol-free, non-hazardous formulation
- Compatible with both a wet & semi-dry transfer apparatus

Description	Size	Cat. No.	Unit
Rapid Transfer Buffer, 10X	1 L	97064-312	Each
Rapid Transfer Buffer, 10X	4 L	97064-314	Each

Rapid Transfer of protein using wet and semi-dry methods. Cytoplasmic protein from K562 cells was separated using a 10% Fluorescent SPRINT NEXT GEL®. Gels were washed with dH₂O for 5 minutes and an image was captured with UV transillumination (lanes A1, B1). Gels were equilibrated for 5 minutes in Rapid Transfer Buffer and wet transferred at 90 V at room temperature for 15 minutes (Figure A) or semi-dry transferred at 25 V for 10 minutes (Figure B). Image capture of the gels after transfer was performed again with UV transillumination (lanes A2, B2). The membranes were then probed with 1:5,000 anti-β-tubulin (lane A3) and 1:1,000 anti-β-actin antibody (lane B3) for 45 minutes using the Rapid Western kit. The blots were developed with VisiGlo Plus™ HRP Chemiluminescent Substrate Kit (97063-148).



RapidBlock™ Solution, 10X

Block Western blot membranes in just 5 minutes

- Protein-free formulation reduces cross-reactivity
- Enhances chemiluminescent signal

Description	Size	Cat. No.	Unit
RapidBlock Solution, 10X	15 ml	97063-124	Each
RapidBlock Solution, 10X	100 ml	97064-124	Each

RapidBlock™ for Western blotting.

Cytoplasmic protein (10 μg) from K562 cells was resolved using a 12.5% Fluorescent SPRINT NEXT GEL®. Total protein and band resolution were determined by UV visualization prior to transfer to PVDF membrane (lanes A1, A2). The membrane was cut into strips and blocked 5 minutes in either TBST/5% non-fat dry milk (lane B1) or AMRESCO's RapidBlock Solution (lane B2). The blots were probed with β-tubulin antibody diluted 1:5,000 in their respective blocking solutions, followed by washing, then incubation with HRP-conjugated secondary antibody. Blots were washed prior to detection with VisiGlo Plus™ HRP Chemiluminescent Substrate Kit (97063-148).

