

Introducing nUView...

Innovative nUView rapid protein visualization technology

NuSep manufactures gels that fit your tanks.

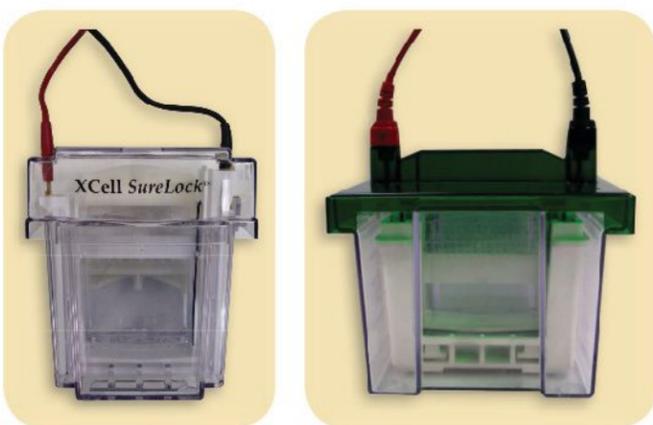
Our nUView NN gels fit XCell SureLock™ tanks.

Our nUView NB gels fit Mini-Protean® tanks.

NuSep gels

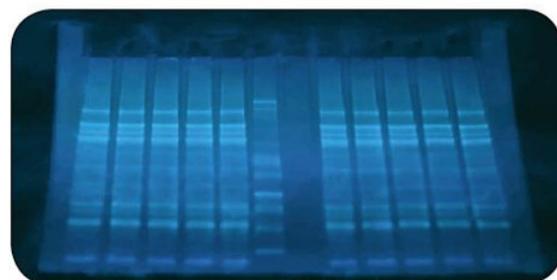


In your tank



nUView means 2 minute visualization

After running, simply place your gel over a standard 250- 320 nm UV trans-illuminator and watch high-resolution bands appear in just 2 minutes, before downstream processes, e.g. Western Blotting and MS analysis.



2 minute visualization under UV light

- E**ase of use
- A**nalyse immediately
- S**helf life (18 months)
- Y**our tank

Higher Resolution...

Others

TGX 4-20%



NuPAGE 4-12%



NuSep

NuSep nUView NB 4-20%



NuSep nUView NN 4-20%



Fast Run Times

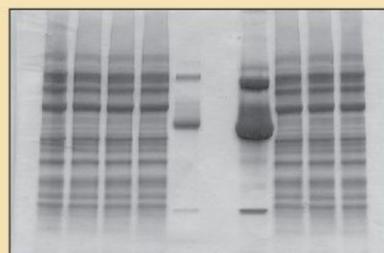
The formulation of nUView Tris-Glycine gels is developed in 125 Vh as compared to standard Laemmli gels of the same length which require 225 Vh when developed in Tris-Glycine/SDS. This reduces the time to run the gels.

nUView Cassette Selection	Running Time (minutes) in Different Buffers		
	Tris-Glycine @ 250V	Tris-MOPS @ 200V	Tris-MES @ 200V
NN (fits XCell SureLock™ tanks)	55	35	45
NB (fits Mini-Protean® tanks)	35	20	25
NG (fits all other tanks)	30	20	25

Note: Standard Laemmli gel run in Tris-Glycine at 150V will have a run time of 90 minutes

Stability & Easy Storage

18 month storage life (4°C) from date of manufacture or 6 months at room temperature (25°C)



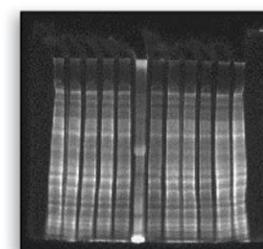
At 4°C



At 37°C



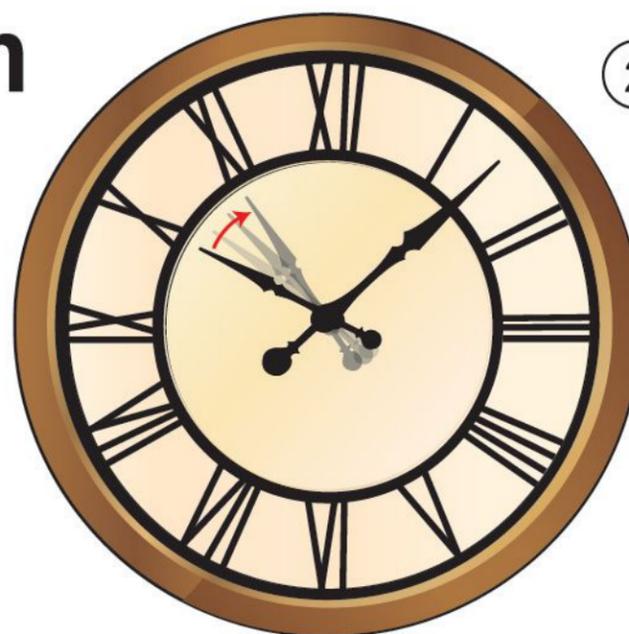
Run samples in your tank



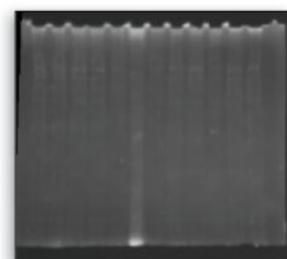
After run, visualize your gel under UV

① **Run**

② **View**



③ **Confirm**
Transfer Efficiency



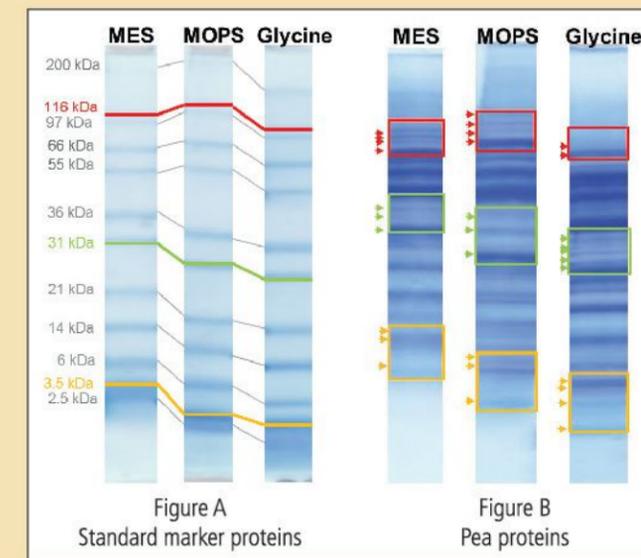
After transfer, visualize residual protein in gel under UV



After transfer, visualize your PVDF membrane under UV

Flexibility to Run in Different Buffer Systems

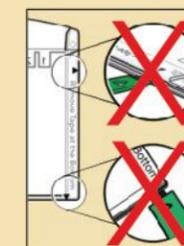
NuSep Tris-Glycine gels can be developed in a range of Tris buffers with different counter ions, each producing a subtle variation to the migration pattern (Figures A and B).



Easy to Use

NuSep precast gels are easy to use and contain:

- Solid plastic well dividers to make loading easy
- Tear open pouch and gently pinch cassette wells
- No tape to remove
- Trouble-free cassette loading and opening (requiring no key or knife to open)



nUView - How it Works

nUView gels allow the separated protein bands to be visualized by illuminating the gel on a standard UV trans-illuminator or in a gel-doc system.

The amino acid tryptophan is naturally fluorescent, but not in the visible spectrum. However using nUView, the fluorescent is shifted to the visible blue spectrum with excitation by UV light. This gives similar visualization to other staining methods.

A. Standard UV Trans-illuminator



B. Gel-doc System



1. Run a nUView gel.
2. Rinse the surface of a gel very briefly.
3. Place the gel on the plate.
4. Turn on the UV for at least 90 sec.
5. Check the UV-dependant fluorescent proteins bands
6. Take a photo with a suitable camera, ideally with blue lens.

1. Run a nUView gel.
2. Rinse the surface of a gel very briefly.
3. Place the gel on the plate.
4. Select transillumination for excitation (excited at 300nm).
5. Select shortwave filter (Green/Blue) for emission.
6. Switch on the UV for 90 seconds until bands are visualized.
7. Take the image with exposure of 1-2 seconds

Applications

1. Transfer the gels to PVDF for Western Blot. After transfer the same gel can be viewed under UV to check for protein transfer efficiency.
2. Pick up bands for MS analyses, or
3. Post-stain with a normal Coomassie.

Product Specifications

Company	NuSep	NuSep	NuSep	Invitrogen™	Bio-Rad®
Brand	nUView NB Cassette	nUView NN Cassette	nUView NG Cassette	NuPAGE® Bis-Tris	Mini-PROTEAN® TGX™
UV and Band Visualization in Minutes	2 minutes	2 minutes	2 minutes	X 16 hours	X 16 hours
Recommended Running Buffer	Tris-Glycine, Tris-MES or Tris-MOPS	Tris-Glycine, Tris-MES or Tris-MOPS	Tris-Glycine, Tris-MES or Tris-MOPS	Tris-Glycine, Tris-MES or Tris-Acetate	Tris-Glycine
Compatible Tanks	Mini-PROTEAN® Tanks	XCell SureLock™ Tanks	All other 10cm Tanks	XCell SureLock™ Tanks	Mini-PROTEAN® Tanks
Run Time (Tris-Glycine)	35 minutes	55 minutes (35 minutes - MES Buffer)	30 minutes	-- (35 minutes - MES Buffer)	30 minutes
Recommended Voltage	250V	250V	250V	200V	200V
No Tooling Required to Open Cassette	✓	✓	✓	X	X
Solid Well Dividers	✓	✓	✓	X	X
SDS in Gel	X	X	X	X	X
Shelf-life at 4°C	18 Months	18 Months	18 Months	12 Months	12 Months
Cassette Size:					
Wide	10.0cm	10.0cm	10.0cm	10.0cm	10.0cm
High	8.5cm	10.0cm	8.0cm	10.0cm	8.0cm
Thick	0.5cm	0.7cm	0.5cm	0.7cm	0.46cm
Gel size:					
Wide	8.0cm	8.0cm	8.0cm	8.0cm	8.6cm
High	7.3cm	8.8cm	6.8cm	7.5cm	7.3cm
Thick	0.1cm	0.1cm	0.1cm	0.1cm	0.1cm

Broad Migration Range for nUView Gels

