

# 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.

## nUView means 2 minute visualization

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

## 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.

## Stability & easy storage

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

## 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 transilluminator 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.

### Standard UV transilluminator

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 protein bands.
6. Take a photo with a suitable camera, ideally with blue lens.

### 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. Select transillumination for excitation (excited at 300 nm).
5. Select shortwave filter (green/blue) for emission.
6. Switch on the UC for 90 sec. until bands are visualized.
7. Take the image with exposure of 1 - 2 sec.

### Applications

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

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## Product Specifications Precast gels

Broad migration range for nUView gels.

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

### NuSep and nUView Gels

NuSep is a life science company providing innovative tools that simplify and accelerate protein separation, ractionation and proteomic analysis.

nUView Precast Gels contain a unique formulation allowing protein bands to be visualised in only 2 minutes under ultraviolet (UV) light.

ProteoIQ is a powerful software that supports the entire proteomic data analysis pipeline from identification to quantification.

ProteomeSep is a unique bench top instrument capable of charge and size separation of complex protein mixtures to help target the right part of the proteome.

Diagnostics provide specialised blood coagulation tests that are used to predict the risk of thrombosis and bleeding disorders.

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## nUView Tris-Glycine Precast gels

Each box = 10 cassettes	% Acrylamide	10 Well 50 µl	12 Well 30 µl	15 Well 25 µl	17 Well 20 µl
<b>NN Cassette</b> 10,0 cm (width) 10,0 cm (length)  Fits XCell SureLock™ tanks	8 %	NN10-008	NN12-008	-	NN17-008
	10 %	NN10-010	NN12-010	-	NN17-010
	12 %	NN10-012	NN12-012	-	NN17-012
	4 - 16 %	NN10-816	NN12-816	-	NN17-816
	4 - 20 %	NN10-420	NN12-420	-	NN17-420
<b>NB Cassette</b> 10,0 cm (width) 8,5 cm (length)  Fits Mini-Protean® tanks	8 %	NB10-008	NB12-008	-	NB17-008
	10 %	NB10-010	NB12-010	-	NB17-010
	12 %	NB10-012	NB12-012	-	NB17-012
	4 - 16 %	NB10-816	NB12-816	-	NB17-816
	4 - 20 %	NB10-420	NB12-420	-	NB17-420
<b>NG Cassette</b> 10,0 cm (width) 8,0 cm (length) prev. called iGels  Compatible with all other tanks	8 %	NG21-008	NG11-008	NG31-008	-
	10 %	NG21-010	NG11-010	NG31-010	-
	12 %	NG21-012	NG11-012	NG31-012	-
	4 - 16 %	NG21-816	NG11-816	NG31-816	-
	4 - 20 %	NG21-420	NG11-420	NG31-420	-

Buffers		Stains & Accessories	
Tris-Glycine SDS Running Buffer 5 l Sachet	BG-143	Novex Tank Adaptor Kit	AG-001
Tru-Sep SDS Sample Buffer 5 ml x 2 (2 x)	BG-145	Coomassie Electrophoresis Stain 500 ml	SG-021
Tris-Glycine Kit of BG-143 and BG-145	BG-146	Coomassie Electrophoresis Stain 500 ml x 4	SG-022
Transfer Buffer 500 ml (20 x)	BG-1683	Rapid Coomassie Electrophoresis Stain 500 ml	SG-010
		Gel Drying Solution 500 ml	GD-500
		Gel Drying Solution 500 ml x 4	GD-2000