



## Protein EZ-Vision, 4X

<u>Code</u>	<u>Description</u>	<u>Size</u>
N836-Kit	Protein EZ-Vision™, 4X <i>Includes:</i> 2 tubes of 1mL Protein EZ-Vision™, 4X Protein EZ-Vision™ is supplied as a protein loading and visualization dye	2X1ML
N836-0.2ML	Protein EZ-Vision™, 4X <i>Includes:</i> 1 tube of 0.2mL Protein EZ-Vision™, 4X Protein EZ-Vision™ is supplied as a protein loading and visualization dye	0.2ML

### General Information:

Protein EZ-Vision™ is a non-hazardous fluorescent reagent that produces instant visualization of protein bands upon UV illumination of SDS-PAGE gels. Supplied in a 4X loading buffer, Protein EZ-Vision™ co-migrates with the sample protein-SDS complex during electrophoresis. Post-run staining and destaining is completely eliminated and results can be visualized immediately after the run by placing the gel on a standard UV transilluminator.

### Storage/Stability:

Store at 18–26 °C

### Application Disclaimer

*For Research Use Only.  
Not for Therapeutic or Diagnostic Use.*

**Procedure:**

**Note:** If using a pre-cast gel, pre-run the gel for 15-20 minutes at standard gel running conditions for optimal results.

**Note:** Addition of reducing agent to protein sample will reduce fluorescence signal.

**Sample Preparation**

1. Vortex EZ-Vision™ Protein for 10 seconds prior to each use. Note: If some of the sample appears clumpy, heat at 37°C for 1-3 minutes to dissolve the SDS.
2. Dilute 1 part EZ-Vision™ Protein with 3 parts protein sample and mix.
3. Boil sample for 3-5 minutes at 95°C.
4. Load sample and run according to standard procedure.

**Note:** Additional fluorescence signal will remain in the dye front, causing the fluorescent signal from proteins near the front to be more difficult to detect.

**Protein Visualization**

1. Place the gel absent of glass plates on a UV transilluminator to immediately visualize bands. Optimal signal can be obtained using a 302nm transilluminator (see FAQ for other possible wavelengths). Protein bands will emit an orange fluorescence. The optimal visualization filter is an Ethidium Bromide filter.

**Note:** Fluorescent protein signal will decrease slightly as exposure time to UV is increased.

2. Optimal camera exposure times will be between 4-20 seconds depending on the desired intensity.
3. Gels can be post stained with Coomassie© stain if desired or transferred to PVDF or nitrocellulose membranes for western blotting.

**Related Products:**

<u>Code</u>	<u>Product</u>
<i>Electrophoresis Reagents</i>	
M256-100ML	NEXT-GEL™10% Solution, 1X
M256-500ML	Premixed, ready to pour acrylamide solution for analysis of proteins by SDS-PAGE Includes: NEXT GEL™ Running Buffer, 20X, 500ml 10 ml of the 1X acrylamide solution is sufficient to prepare a 10 x 10 cm mini-gel.
M317-Kit-100ml	Fluorescent SPRINT NEXT™ GEL, 10%
M317-Kit-500ml	
M318-Kit-100ml	Fluorescent SPRINT NEXT™ GEL, 12.5%
M318-Kit-500ml	
0783-4L	Tris-Glycine-SDS Buffer, Liquid Concentrate, 10X
K833-100TABS	Ammonium Persulfate Tablets
0761-25ML	TEMED
<i>Western Blotting Reagents</i>	
N789-1L	Rapid Transfer Buffer, 10X
M325-100ml	RapidBlock™ Solution, 10X
N218-Kit	VisiGlo™ HRP Chemiluminescent Substrate
M790-Kit	Rapid Western Blotting Kit - Mouse-SDT
M791-Kit	Rapid Western Blotting Kit - Rabbit-SDT
M792-Kit	Rapid Western Blotting Kit – Mouse-WT
M793-Kit	Rapid Western Blotting Kit – Rabbit -WT
N219-Kit	VisiGlo™ PLUS HRP Chemiluminescent Substrate
N552-1L	Gentle ReView™ Stripping Buffer
N656-Kit	UnDo™ X-ray Film Background Reducer

**Protein EZ-Vision FAQ**

<b>Which filter is recommended for visualizing protein stained with Protein EZ-Vision™ dye?</b>	The optimal filter for Protein EZ-Vision™ is an Ethidium Bromide filter.	
<b>Which wavelength can be used to illuminate protein bands run with Protein EZ-Vision™?</b>	The optimal wavelength is 302nm; however, signal can also be observed using the following wavelengths: 254nm, 312nm, 365nm, and laser excitation at 488nm.	
<b>Which downstream applications are compatible with Protein EZ-Vision™?</b>	Protein EZ-Vision™ is compatible with western blotting applications.	
<b>How sensitive is Protein EZ-Vision™?</b>	Protein EZ-Vision™ detects protein down to 100ng and has a similar sensitivity as standard Coomassie Blue staining.	Protein EZ-Vision™ sensitivity was determined with BSA standards and with AMRESCO's Wide Range Protein Markers (K494).
<b>Does loading buffer need to be added to protein samples containing Protein EZ-Vision™ dye?</b>	No, Protein EZ-Vision™ acts as both the loading dye and the protein visualization dye.	
<b>Why does my Protein EZ-Vision™ sample appear clumpy?</b>	Protein EZ-Vision™ contains SDS. When stored cold, the SDS will precipitate. Slight heating at 37°C will solubilize the SDS.	
<b>Why can't I see my protein bands?</b>	Gel running conditions were not optimized.	The signal from protein bands at or near the dye front may get obscured by the fluorescent signal at the dye front. To overcome, try increasing the gel percentage.
	Not enough protein was loaded onto the gel.	Load at least 100ng of protein (each protein) per lane. You may need to optimize loading amounts for each sample. Protein EZ-Vision™ is as sensitive as Coomassie© staining.

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