Protein EZ-Vision®, 4X

Code	Description	Size
N836-KIT	**Protein EZ-Vision®, 4X**	2 x 1 mL vials
N836-0.2ML	**Protein EZ-Vision®, 4X**	0.2 mL

General Information

VWR Life Science AMRESCO's Protein EZ-Vision®, 4X 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.

- Immediate visualization
- Sensitivity down to 100 ng protein
- Compatible with downstream Western blotting

Storage/Stability

Store frozen (-20 to 0°C).

Product Use Limitations

For research use only. Not for therapeutic or diagnostic use.

Protocol/Procedure

Notes:

- If using a pre-cast gel, pre-run the gel for 15 – 20 minutes at standard gel running conditions for optimal results.
- Addition of reducing agent to protein sample will reduce the fluorescent signal.
- Storage at -20°C will provide the best signal over time. Preparation of frozen aliquots of Protein EZ-Vision® will also extend product life.

Sample Preparation

1. Vortex Protein EZ-Vision® for 10 seconds prior to each use.
2. Dilute 1 part Protein EZ-Vision® with 3 parts protein sample and mix well.
3. Boil sample 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 dye front to be more difficult to read.

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 302 nm transilluminator (see FAQ for other possible wavelengths). Protein bands will emit an orange or green fluorescence. The optimal visualization for most proteins 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.

Gels can be post-stained with coomassie stain if desired or transferred to PVDF or nitrocellulose membranes for western blotting.

Frequently Asked Questions

Questions	Answers
Which filter is recommended to visualize protein stained with Protein EZ-Vision® ?	The optimal filter for Protein EZ-Vision® is the ethidium bromide filter.
Which wavelength can be used to illuminate protein bands run with Protein EZ-Vision®?	The optimal wavelength is 302 nm; however, the following wavelengths can be used: 254 nm, 312 nm, 365 nm, and laser excitation at 488 nm.
Which downstream applications are compatible with Protein EZ-Vision®?	Protein EZ-Vision® is compatible with western blotting applications.
How sensitive is Protein EZ-Vision®?	Protein EZ-Vision® detects protein down to 100 ng and has similar sensitivity as standard coomassie staining. Sensitivity was determined with BSA and Amresco's Wide Range Protein Markers (K494).
Does loading buffer need to be added to protein samples containing Protein EZ-Vision®?	No, Protein EZ-Vision® acts as both the loading dye and the visualization dye.
Why does my Protein EZ-Vision® sample appear clumpy?	Protein EZ-Vision® contains SDS. When stored cold, the SDS will precipitate. Slight heating at 37°C will solubilize the SDS.
Why can't I see my protein bands?	1. Gel running conditions were not optimized. The signal from the 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. 2. Not enough protein was loaded. Load at least 100 ng of protein (each protein) per lane.

Directions for Use

For Technical Support

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