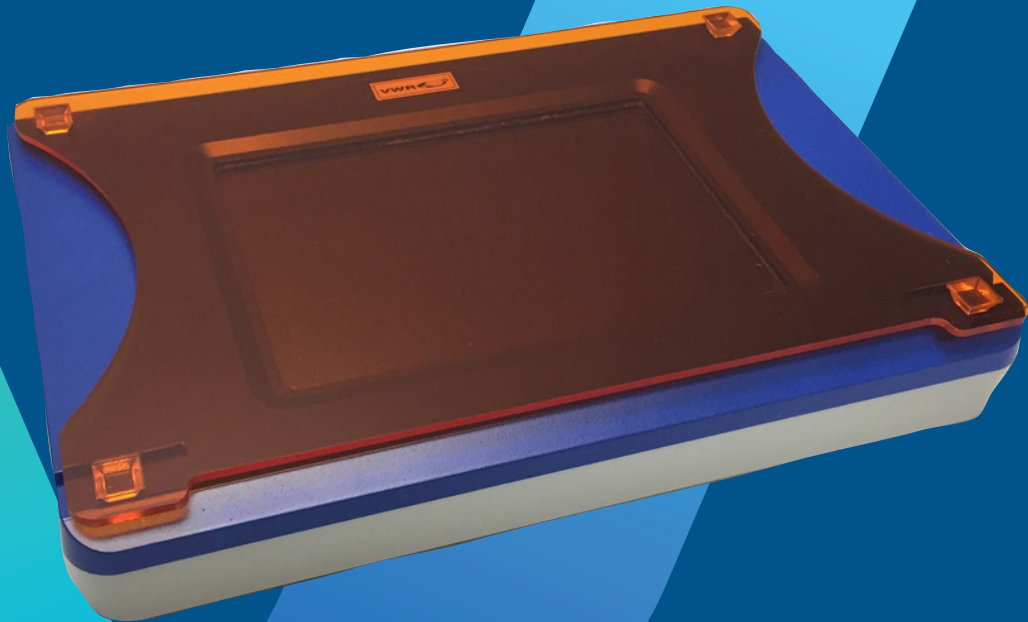
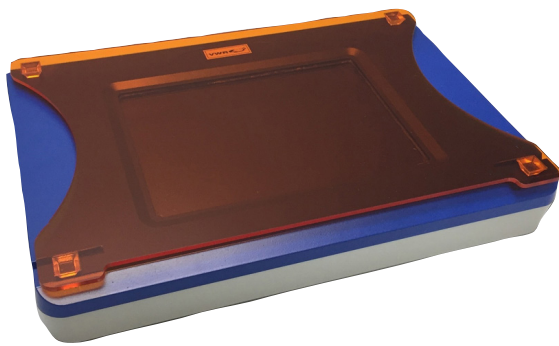


VWR® Blue Light Transilluminator and Reagents

01. UNIFORM ILLUMINATED
SURFACE

02. BLUE WAVELENGTH
DOES NOT DAMAGE DNA



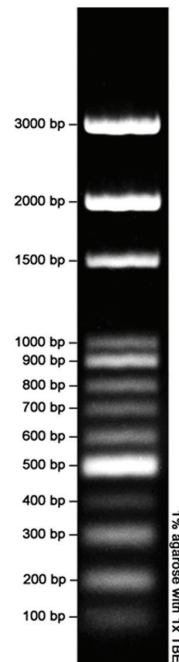


VWR® BLUE LIGHT TRANSILLUMINATOR

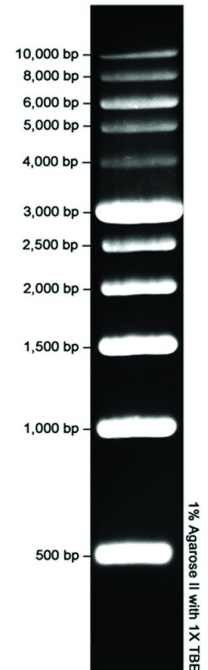
- Blue wavelength does not damage DNA
- Uniform illuminated surface
- 465 nm wavelength, ideal for most fluorescent DNA stains
- Amber cover is removable and can be set to an angle

VWR®'s Blue Light Transilluminator provides a safe and cost effective alternative to UV transilluminators for viewing gels stained with dyes excited in the blue light spectrum. Blue light excitation does not damage DNA samples and these dyes can be safe alternatives to hazardous Ethidium Bromide. The evenly illuminated viewing area can accommodate gels up to 12 x 17 cm, and the scratch-resistant glass surface allows cutting out bands.

| Electrical | Cat. No. |
|---------------------------------------|-----------|
| 100 to 240VAC (Includes US type plug) | 76151-834 |



Ready Ladder™ 100 bp DNA Marker.
13 fragments ranging from 100 - 3,000 bp



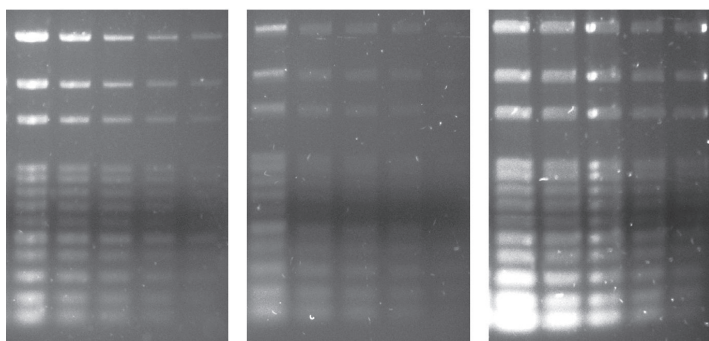
Ready Ladder™ 1 kb DNA Marker. 11 fragments ranging from 500 - 10,000 bp

READY LADDER™

DNA LADDERS PREMIXED WITH LOADING DYE FOR CONVENIENCE

RELATED PRODUCTS FROM VWR LIFE SCIENCE

| Description | Size | Cat. No. |
|-------------------------------------|--------|-----------|
| Agarose I™ | 25 g | 97062-248 |
| Agarose I | 100 g | 97062-244 |
| Agarose I | 500 g | 97062-250 |
| Agarose SFR™ | 25 g | 97064-138 |
| Agarose SFR | 100 g | 97064-134 |
| ReadyLadder™ DNA Ladder, 100bp | 300 µL | 97063-208 |
| ReadyLadder™ DNA Ladder, 1kb | 600 µL | 97063-212 |
| TAE Buffer, Liquid Concentrate, 25X | 1.6 L | 97062-384 |
| TAE Buffer, Liquid Concentrate, 25X | 4 L | 97062-386 |
| TAE Buffer, Ready-Pack™, 25X | Pk. 2 | 97062-518 |
| TAE Buffer, Liquid Concentrate, 50X | 1.6 L | 97063-692 |
| TBE Buffer, Liquid Concentrate, 10X | 4 L | 97062-122 |
| TBE Buffer, Liquid Concentrate, 10X | 20 L | 97062-120 |
| TBE Buffer, Ready-Pack, 10X | Pk. 2 | 97061-752 |



Comparison of EZ-Vision® Blue Light DNA Dye to GelGreen™ and SYBR® Green I Two-fold dilution series of identical DNA fragments were electrophoresed in 1% agarose gels. The gels were then stained with EZ-Vision Blue Light (left panel), GelGreen (middle panel) and SYBR Green I (right panel). DNA fragments were visualized using a blue light transilluminator and SYBR Green filter.

UV-FREE DNA VISUALIZATION WITH A NON-TOXIC, NON-MUTAGENIC DYE

MUTAGENICITY TESTING OF EZ-VISION® BLUE LIGHT

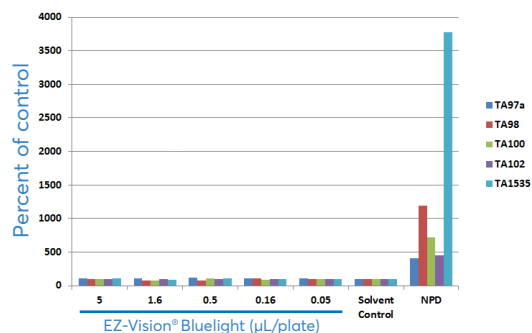
EZ-Vision does not meet the criteria for classification as a potential mutagen as determined by the Ames test. Exposure to EZ-Vision Blue Light did not significantly increase the percentage of revertants of mutant *S. Halixtyphimurium* over controls either (A) without or (B) with S-9 activation. NPD = mutagenic control, 4-nitro-0-phenylene-diamine.

ENVIRONMENTAL TOXICITY TESTING OF EZ-VISION® BLUE LIGHT

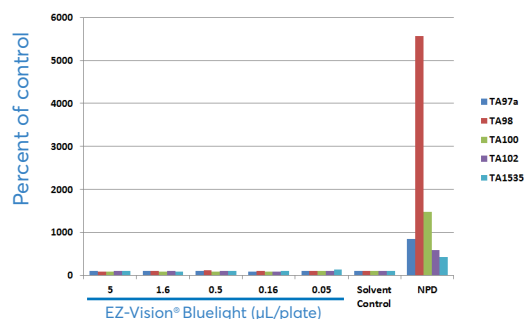
EZ-Vision environmental hazard testing was determined by the CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay. EZ-Vision Blue Light was determined to be non-hazardous with LC50 > 750 mg/L.

| Substance | % Survival | | | |
|---------------------------------|------------|--------|--------|--------|
| | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| Control (caCO ₂) | 100 | 100 | 100 | 100 |
| EZ-Vision® Blue Light, 400 mg/L | 100 | 100 | 100 | 100 |
| EZ-Vision® Blue Light, 750 mg/L | 100 | 100 | 100 | 100 |

A Summary of Ez-Vision® Blue Light Ames testing without S-9 activation



B Summary of Ez-Vision® Blue Light Ames testing with S-9 activation



EZ-VISION® BLUE LIGHT PERFORMANCE VERSUS COMPETING BLUE LIGHT STAINS

BLUE LIGHT VISUALIZATION

Fluorescent dye visualizes DNA bands using blue light excitation or standard UV transilluminator.

LESS DAMAGE TO DNA

Use with blue light excitation (410–510nm) and a green emission filter (500–600 nm) to eliminate UV-induced DNA damage and improve downstream cloning efficiency.

SAFER TO USE

Formula is both non-toxic and non-mutagenic and eliminates the need to use ethidium bromide and UV light.

FLEXIBILITY AND COMPATIBILITY

Use as an in-gel stain for immediate post-electrophoresis results or as an easy 30 minute post-stain. Compatible with standard downstream applications, including gel extraction, cloning and sequencing.

| Description | Size, μL | Cat. No. |
|-----------------------------------|----------|-----------|
| EZ-Vision Blue Light Dye, 10,000X | 500 | 10791-798 |

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