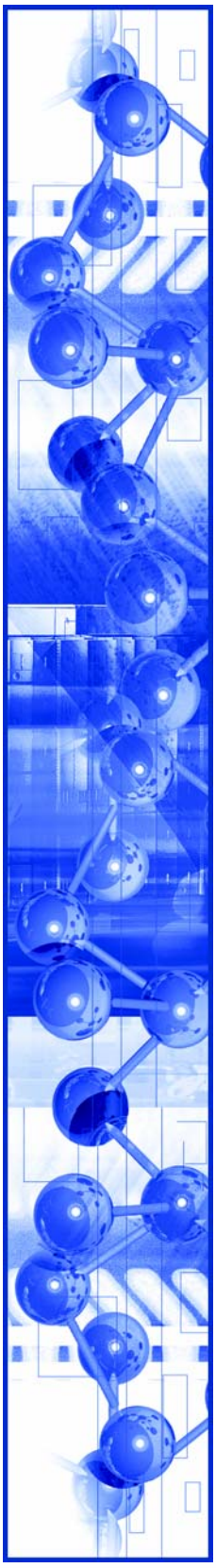

Visual Violet™ Gel Kit

Code	Description	Size
N733-KIT	Visual Violet™ Gel Kit *Includes*: Visual Violet™ Gel Stain, 200X, 15 ml Visual Violet™ Loading Buffer, 6X, 2 ml *Sufficienct for 30 x 100 ml gels*	1 Kit

General Information:

The Visual Violet™ Gel Kit provides an in-gel stain that eliminates the need for UV irradiation of agarose gels for visualization of DNA bands following electrophoresis. Since UV light introduces nicks as well as other lesions in DNA, it can impact downstream applications sensitive to DNA damage. With Visual Violet™, cloning efficiency can increase 3 to 5 fold over that obtained with Ethidium Bromide stained gels.

Electrophoresis can be monitored in real time with Visual Violet™ and the run can be stopped as soon as the desired band resolution is obtained. Bands are visible immediately after electrophoresis with the naked eye or on a white (visible spectrum) light box without destaining. Fragments may be excised and purified for use in downstream applications by conventional methods including spin-column chromatography and alcohol precipitation.

The sensitivity of Visual Violet™ is less than Ethidium Bromide. While DNA amounts of 50 ng per band can be visualized for 1000 bp fragments, concentrations of 200 ng or higher are recommended for optimal visualization. Visual Violet™ is ideal for detection of medium to large DNA fragments (500 to >40,000 bp).

A 6X loading buffer is included with the Visual Violet™ stain. This loading buffer does not contain a tracking dye since common tracking dyes such as bromophenol blue can interact with Visual Violet leading to poor resolution and band distortion. Electrophoresis should be monitored by following the Visual Violet™ dye front in the gel which migrates in the opposite direction of the DNA. Bands should not be allowed to migrate beyond the Visual Violet™ dye front.

Storage/Stability:

Store Visual Violet™ Gel Kit at 20 – 25 °C

Application Disclaimer

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

Note: Visual Violet™ can stain skin and clothing. Gloves and and a lab coat should be worn when handling

Protocol:

1. Visual Violet™ Gel Stain, supplied as a 200X solution, should be added to the melted agarose immediately before gel casting.
   (Example:)
   - Melt 1 g of Agarose I™ (Code #: 0710) in 100 mL of 1X TAE
   - Cool agarose to 60°C
   - Add 0.5 mL of Visual Violet™ Gel Stain and mix
   - Pour agarose into gel casting system, add comb and let gel solidify
   - After gel solidifies, remove comb and submerge gel in 1X TAE running buffer. Gel should just be submerged to maximize staining sensitivity
2. Mix 1 volume of Visual Violet™ Loading Buffer, 6X, with 5 volumes of each DNA sample.
3. Load DNA samples and resolve DNA at 5 – 8 V/cm
4. Important, DO NOT let the DNA migrate beyond the Visual Violet™ Dye front.
5. After the run, remove gel and place on a light box for optimum visualization of the DNA.

Related Products

Code	Product
0710-25G	Agarose I™
0710-100G	
0710-500G	
K857-100TABS	Agarose I™ Tablets, 500 mg
0796-1.6L	TAE Buffer, 25X Liquid Concentrate

Visit the AMRESCO website to view additional related products
www.amresco-inc.com

REFERENCES

1. 1 RAND, K. N. (1996) Crystal violet can be used to visualize DNA bands during gel electrophoresis and to -improve cloning efficiency. Elsevier Trends Journals Technical Tips Online, T40022.

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