GeneDia

E-Gel CloneWell 2% with safe-stain MANUAL

GENEDIA™ **life Science Co.**

Product # EG2-75

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Introduction

The E-Gel agarose gel electrophoresis system is a complete system for agarose gel electrophoresis of samples. This product are self-contained gels packaged inside a disposable, UV-transparent cassette. The E-Gel agarose gels run in a specially designed device that is a base and power supply combined into one device. Each gel is provided in a sealed package so you are protected from exposure. As a precaution, always wear gloves and protective clothing when handling the gel.

Kit Components

Components	Product # EG2-75
GeneDia™ E-Gel	75 wells
GeneDia™ Electrophoresis Buffer (50x)	10 ml
GeneDia™ E-Size marker(100bp)	12 µl
GeneDia™ Real-time Transilluminator	1
Product Insert	1

Storage Conditions

- All kit components should be stored at room temperature except E-Size marker which should be stored at -20°C.
- Store E-Gel at room temperature. Do not allow the temperature to drop below 4°C or rise above 40°C. Gels are guaranteed to be stable for at least 6 months upon receipt.
- All Components can be used until the expiration date specified on their labels.

Recommended Equipment and Reagents

- Single-channel pipettes
- Sampler tips

Warnings and Precautions

- Dispose of used E-Gel agarose gels containing ethidium bromide as hazardous waste.
- Avoid overexposure of skin and eyes when using UV light.
- Avoid overexposure of eyes when using intense blue light
- Avoid touching the gel during electrophoresis.

General guidelines

1. Ensure the terminals are connected the correct way (red to red, black to black) and the samples are at the negative end of the gel, running toward the positive end.

2. This 50-fold concentrated electrophoresis buffer, pH 7.8-8.0, has been optimized for agarose gel electrophoresis of nucleic acids. One volume of buffer is added to every 49 volumes of distilled or deionized water to prepare 1x working electrophoresis buffer.

Load samples and Gel Documentation

5. Remove E-Gel agarose gel from package and Cut the number of wells in agarose gel you need.

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6. Fill the reservoir with Electrophoresis Buffer 1X until the buffer covers the agarose gel.

7. Insert the gel into the base, starting from the left edge of the cassette.

8. Load **2 µl of E-Size marker** (100bp) onto first well per line.

9. Load 10 µl of prepared sample into each well.

10. Run the gel at an appropriate voltage and time (depends on size of PCR product). Ensure current is being applied by checking for bubbling near the two electrical leads.

11. When the dyes have migrated a sufficient distance through the gel, turn off the electric current.

If you use GeneDia™ Real-time Transilluminator:

12. Press  the once to activate the blue light source, to visualizing band.

Note: In order to conserve the blue light lamp, the light will be there for 10 seconds only, and then switch off again by its own. Press the button for 3 seconds to switch constant light on.

If you use other transilluminator:

12. Remove the leads from the gel tank and Transfer the gel to a small plastic box or carrying tray.

13. Put the gel onto the UV transilluminator or gel imaging device. Use caution when inserting media into the imager to avoid spills and contamination of equipment.

14. Close cabinet door, and switch on UV light. Adjust zoom and focus, then capture image.

15. Retrieve your samples for disposal. Visually inspect the area to determine if a spill has occurred.

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