艾科瑞生物
Accurate Biology

Instruction for Use

General Agarose

AG11901
Version.V1E1

Research Use Only
Not For Diagnosis Procedures

1. Description

This product is a high-purity agarose product, ideal for electrophoresis detection and separation of DNA fragments. It is suitable for preparing 0.5-3% agarose gels. When stained with ethidium bromide, it exhibits low background, strong electrophoretic separation performance, and clear bands.

2. Kit Information

Kit Name	Cat. No	Specification
General Agarose	AG11901	100 g

3. Transportation and Storage

Storage	Store at Room Temperature
Transportation	Transport at Room Temperature

4. Product Properties

1% Gel Strength	> 1200 g/cm²
Electroendosmosis (EEO)	< 0.13
Gelation Temperature (1.5%):	36 ± 1.5°C
Melting Temperature (1.5%)	88 ± 1.5°C
DNase activity	None Detected
RNase activity	None Detected

5. Protocol for Gel Preparation

1) Prepare the buffer solution for gel preparation (e.g., 1X TAE or 0.5X TBE solution).

2) Calculate and accurately measure the buffer solution and agarose powder based on the required gel volume and concentration. Add them to an Erlenmeyer flask. (Ensure the buffer used for electrophoresis matches the buffer used for gel preparation.)

3) Cover the mouth of the Erlenmeyer flask with plastic wrap and poke small holes in the wrap. Place the flask in a microwave and heat to dissolve the agarose powder. When the solution begins to boil, stop heating, remove the flask, and gently swirl to mix. After the steam has dissipated significantly, swirl again to mix thoroughly (ensure the mouth of the flask is not facing anyone during this process). Place the flask back in the microwave and continue heating. Repeat this process as needed until the agarose powder is completely dissolved.

4) Cool the solution to approximately 60°C. If necessary, add ethidium bromide to the solution (final concentration 0.3 μg/ml) and mix well.

5) Pour the agarose gel solution into the gel casting tray and insert the comb. The gel thickness is typically 3-5 mm but can be adjusted as needed.

6) Allow the gel to solidify at room temperature (30-60 minutes), then place it in the electrophoresis tank for electrophoresis. (If the gel is not used immediately, wrap it in plastic wrap and store it at 4°C in the dark for 2-5 days.)

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