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Low electroendosmosis Agarose powder

Product Number: LE500

Shipping and Storage

Room temperature, dry storage

Description

Low electroendosmos Agarose powder adopts green and environmentally friendly original technology, and does not use organic solvents throughout the production process, reducing environmental pollution and minimizing the impact on operators and samples. It is suitable for DNA/RNA gel electrophoresis.

Preparation method of gel

1. Prepare an appropriate amount of buffer solution for electrophoresis and gel preparation. According to the electrophoresis requirements, prepare appropriate concentration electrophoresis and gel preparation buffer solutions.
   Note: The buffer used for electrophoresis and the buffer used for gel preparation must be the same.
2. Add accurately weighed agar sugar powder (the total liquid volume should not exceed 50% of the capacity of the conical flask) into the conical flask with a certain amount of electrophoresis buffer according to the gel making amount and gel concentration.
3. Heat and dissolve agarose in a microwave oven, set high heat to boiling, keep the gel boiling for about 30 seconds, wear heat-resistant gloves, remove the conical flask, carefully shake the flask, resuspend undissolved particles, and heat again at high heat for 1-2 minutes, or until the agarose is completely dissolved. Please wear heat-resistant gloves and carefully shake the triangular conical flask to ensure that the agarose gel solution is fully and evenly distributed.
   Note: It is necessary to ensure that the agarose is fully and completely dissolved, at which point the agarose gel solution is clear, otherwise it will cause blurry electrophoresis images. Stop heating if the adhesive solution boils violently and foams during heating. The heating time in the microwave should not be too long.
4. Cool the solution to around 60 ℃, and if necessary, add ethidium bromide (EB) solution at this time to achieve a final concentration of 0.5ug/ml, and mix thoroughly.
   Note: Ethidium bromide is a carcinogenic substance. When using a solution containing ethidium bromide, please wear gloves.
5. Pour the agarose solution into the gel making mold, and then insert a comb at the appropriate position. The thickness of gel is generally 3-5 mm.
6. Allow the gel to solidify at room temperature (approximately 30-1h), then place it in an electrophoresis bath for electrophoresis.
   Note: When the gel is not used immediately, please wrap the gel with plastic wrap and store it at 4 ℃, generally for 2-5 days.

Agarose concentration and DNA separation range

Agarose concentration (%)	0.3	0.6	0.7	0.9	1.2	1.5	2.0
Linear DNA size (kb)	60-5	20-1	10-0.8	7-0.5	6-0.4	4-0.2	3-0.1