



Low EEO Agarose

For Research Use Only

YT9059	25 gr
YT9060	50 gr
YT9057	100 gr
YT9058	500 gr

The Low EEO agarose is the highest quality molecular biology grade agarose suitable for PCR analysis and preparative electrophoresis. The difference between agarose LE and a standard agarose is the level of electroendosmosis (EEO). Electroendosmosis is the movement of water and the contents within through a poriferous material when under the influence of an electric charge caused by an electric current. During electrophoresis, When an electrical current is run, the fluid and DNA move through the pores of the gel .this low EEO agarose is suitable for separation of high molecular weight nucleic acids in low gel concentrations.

Specification:

Appearance White to off-white powder
EEO ≤ 0.13
Gelling Point $36^{\circ}\text{C} \pm 1.5^{\circ}\text{C}$ (1.5% gel)
Melting Point $88^{\circ}\text{C} \pm 1.5^{\circ}\text{C}$ (1.5% gel)
Solubility Clear colorless solution at 1gr in 100ml water
Moisture $\leq 10\%$
Gel Strength ≥ 1200 g/cm² (1% Gel)
Sulfate $\leq 0.15\%$
Ash $\leq 0.5\%$
DNase & RNase None Detected
Protease None Detected
Endonuclease None Detected

Protocol:

- 1) Use a flask that is 2 to 4 times the volume of the solution being prepared.
 - 2) Add the correct amount of agarose powder to the electrophoresis buffer, shake the flask and allow agarose fully wet in the buffer to prevent clumping.
 - 3) Weigh the flask and solution before heating.
 - 4) **If use boiling water bath:**
 - To melt agarose, simply heat the solution in a boiling water bath, bring the solution to a boil and allow it to boil for 5-10 minutes stirring continuously, until agarose dissolves completely.
 - If use microwave oven:**
 - Heat the solution in microwave on high power setting until it starts to boil, allow boiling for 30 seconds.
 - Remove the flask from microwave, shake gently to re-suspend any remaining agarose particles.
 - Reheat on high power for 1-2 minutes or until the solution is clear and all particles are dissolved.
 - Remove the flask from the microwave oven, and gently swirl to it.
- Use caution when handling as solution may be extremely heated.**
- 5) Add additional hot distilled water to bring the contents to the original weight (Step 3) and mix well.
 - 6) Cool the solution to approx. 60°C before pouring.

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