

Low EEO Agarose

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

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.