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## HyAgarose™ Gel Preparation Protocol

Product: HyAgarose™ LE Agarose, Multi-purpose



- 1) Use a flask that is 2 to 4 times the volume of the solution being prepared.
- 2) Add the correct amount of dry agarose to a measured quantity of electrophoresis buffer, swirl the flask and allow agarose fully soak 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 slurry 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 slurry in microwave on high power setting until it starts to boil, allow boiling for 30 seconds.
- Remove the flask from microwave, swirl 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.

## Separation of DNA in agarose

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