

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 10-30 seconds 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