

HyAgarose™ Gel Preparation Protocol



Product: HyAgarose™ HR Agarose, PCR Grade

- 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 medium power setting until it starts to boil, and allow boiling for 30 seconds.
- Remove the flask from microwave, swirl gently to re-suspend any remaining agarose particles.
- Reheat on high power settling for 1 minute or until the solution is clear and all particles are dissolved.
- Remove the flask from the microwave, and gently swirl.

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 in gel (%)	2.0	3.0	4.0	5.0
DNA size range (bp)	500-2,000	100-1,200	50-500	20-250