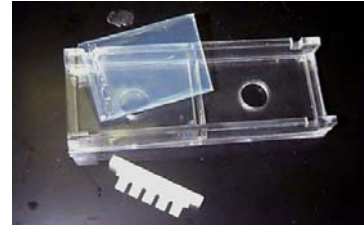


## HyAgarose™ Gel Preparation Protocol

**Product: HyAgarose™ LM Agarose, Low Melting**



- 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 setting 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

DNA size range (bp)	500—25,000	300—20,000	200—12,000	150—6,000	100—3,000	50—2,000
Agarose gel (%), 1xTAE buffer	0.75	1.00	1.25	1.50	1.75	2.00
Agarose gel (%), 1xTBE buffer	0.70	0.85	1.00	1.25	1.50	1.75