



## FastGene® Agarose

Cat.No.: AG01 (100 g), AG02 (500 g)

### How to use:

- 1) Use a flask that is 2 to 4 times the volume of the solution being prepared.
- 2) Add calculated amount of agarose powder to electrophoresis buffer based on below table to prepare your desired gel %.

Gel%	Buffer	Agarose
1.0%	100 ml	1.0 g
1.2%	100 ml	1.2 g
1.3%	100 ml	1.3 g
1.5%	100 ml	1.5 g
1.8%	100 ml	1.8 g
2.0%	100 ml	2.0 g

### 3) Melting the agarose

#### 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.**

### 4) Cool the solution to approx. 60°C before pouring.

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