

# Agarose Tablet Gel Preparation Protocol

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1) Use a flask that is 2 to 4 times the volume of the solution being prepared.

## IMPORTANT

2) Add agarose tablet to electrophoresis buffer based on below table to prepare your desired gel %, soak tablet in buffer for 2 minutes before heating.

GEL %	1 Tab	2 Tabs	3 Tabs
1%	50ml	100ml	150ml
1.2%	42ml	83ml	125ml
1.3%	38ml	77ml	115ml
1.5%	33ml	67ml	100ml
1.8%	28ml	56ml	83ml
2.0%	25ml	50ml	75ml

### 3) *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.

### *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