EZ Pack[™] Agarose

Cat #: A2501 Pack of 200 tablets, 0.5g each Cat #: A2505 Pack of 1000 tablets, 0.5g each

Technical Data

Gel strength:

Gelling temperature: Melting temperature: EEO (-m,): Moisture content: Sulfate: RNase/DNase: Protease/Endonuclease: Storage conditions >1200g/cm² at 1% >2500g/cm² at 1.5% 36°C +/-1.5°C (1.5%) 88°C +/-1.5°C (1.5%) <0.13 <10% <0.2% None detected None detected Room temperature

Instructions for use

Remove the required number of *EZ Pack* Agarose Tablets from the package by pushing through the backing and add to an appropriate amount of buffer, see chart below. Allow tablet(s) to dissolve for 2 minutes. Once the tablet has dissolved, heat and pour the agarose as per your standard procedures.

Note: The time required for the tablet to dissolve is dependent upon the temperature of the buffer and the laboratory. DO NOT heat the solution until the tablet is dissolved.

EZ Chart

Buffer amounts* needed to produce the desired percentage gel.

Gel %	1 Tablet	2 Tablets	3 Tablets	
0.70%	71ml	143ml	214ml	
0.80%	63ml	125ml	188ml	
1.00%	50ml	100ml	150ml	
1.20%	42ml	83ml	125ml	
1.30%	38ml	77ml	115ml	
1.50%	33ml	67ml	100ml	
1.80%	28ml	56ml	83ml	
2.00%	25ml	50ml 75ml		

*Amounts are approximate and rounded to the nearest ml



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Agarose Tablets, 0.5g

Instructions:

- 1) Use a flask that is 2 to 4 times the volume of the solution being prepared.
- 2) Add the 0.5g agarose tablet(s) to a measured quantity of electrophoresis buffer.

IMPORTANT: Tablet must be allowed to soak/dissolve for 2 min before heating.

3) Heating (Microwave):

- 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.

Heating (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.

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

Separation of DNA in agarose