

Ping - Tung Agricultural Biotechnology Park
No.37, Nong-Ke Rd., Ping-Tung 908,
Taiwan
Tel: +886-8-762-1829
Fax: +886-8-762-0791



HyAgarose™ LE Agarose

Product Name : HyAgarose™ LE Agarose 500gr
Catalog Number: E5000
CAS: 9012-36-6
Grade: Molecular Biology Grade
Batch Number: 100906
Report date: October 9, 2010

Quality Control

Test	Specification	Result
Appearance:	White to off-white powder	White powder
Solubility:	Clear colorless solution of 1gram agarose in 100ml water	Pass
Water:	10% max.	9%
Gel strength(1% Gel):	1200 g/cm ² min.	1320 g/cm ²
EEO-Electroendosmosis(-Mr):	0.13 max.	0.06
Sulfate:	0.20% max.	0.09%
Gelling point (1.5% Gel):	36°C±1.5	36°C
Melting point (1.5% Gel):	88°C±1.5	88°C

Dnase: None Pass
Rnase: None Pass
Protease:None Pass

Protocol for Preparation of Agarose Gels

A) To make gels with agarose concentration less than 2%:

- 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.
- 3) If use a boiling water bath:
 - melt the agarose, simply by heating 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 the agarose dissolves completely.If use a microwave oven:
 - melt the agarose in solutions of less than 2%, heat the slurry in a microwave oven on a high power setting until it starts to boil.
 - Allow the solution to boil for 1 min or until the solution is clear and all particles are dissolved.
 - Remove the flask from the microwave oven, and gently swirl to mix the agarose solution.Use caution when handling as solution may be extremely heated.
- 4) Cool the solution to approx. 60°C before pouring.

B) To make gels with agarose concentration greater than 2%:

- 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.
- 3) Heat the slurry in a microwave oven on a medium power setting until it starts to boil.
- 4) Remove the flask from the oven and gently swirl to resuspend the gel particles.
- 5) Reheat the solution on a medium power setting until it starts to boil again.
- 6) Afterwards, remove the flask from the microwave and gently swirl.
If the agarose did not completely dissolve, reheat the solution again.
- 7) Cool to approx. 70°C before pouring.



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