For research purpose only. Not for use diagnostic procedures for clinical purposes. For IN VITRO USE ONLY.

Agarose

Agarose D1 Low EEOO

Cat. No. E5000
500gr

Product Name : Agarose™ D1 Low EEO 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/cm2 min.*	*1320 g/cm2*
EEO-Electroendosmosis(-Mr):	*0.13 max.*	*0.06*
Sulfate:	*0.20% max.*	*0.09%*
Gelling point (1.5% Gel):	*36°C±1.5*	*36ºC*
Melting point (1.5% Gel):	88ºC±1.5	88ºC

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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Certified to ISO 9001 & ISO 14001

#701~704, JungAng Induspia V, Sangdaewon-dong,
Jungwon-gu, SeongNam-si, Gyeonggi-do, 162-120, KOREA
TEL : +82-31-739-5733 FAX : +82-31-739-5744