Biozym LE Agarose

Introduction

Biozym LE Agarose is an all purpose agarose for routine nucleic acid electrophoresis of fragments between 100-23,000 bp and blotting. Due to its outstanding low electro-endosmosis it shows high electrophoresis mobility. Biozym LE has an exceptionally low absorption of staining agents.

Biozym LE is also recommended for protein electrophoresis such as radial immunodiffusion.

Biozym LE Agarose has no detectable DNase or RNase activity.

Specifications

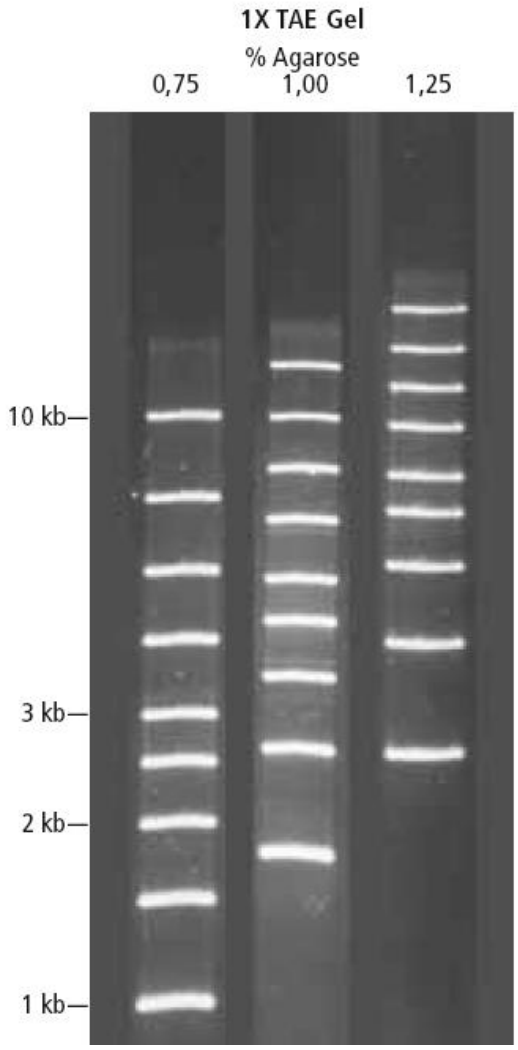
Moisture:	≤ 10%
Electroendosmosis:	0.09-0.13
Sulphate:	≤ 0.15%
Gel Strength 1%:	≥ 1200 g/cm^2
Gelling Temperature 1.5%:	36 ± 1.5°C
Melting Temperature 1.5%:	≥ 90°C
DNase/ RNase activity:	None detected

Applications

- Nucleic acid analytical and preparative electrophoresis
- Blotting
- Protein electrophoresis such as radial immunodiffusion

Recommended Agarose Concentrations

Size Range (base pairs)	Final Agarose Concentration %	
	1 x TAE Buffer	1 x TBE Buffer
1,000 – 23,000	0.60	0.50
500 – 10,000	0.80	0.70
400 – 8,000	1.00	0.85
300 – 7,000	1.20	1.00
200 – 4,000	1.50	1.25
100 – 3,000	2.00	1.75



Biozym LE Agarose Gel in TAE Buffer
Separation of 1-10 kb DNA Marker (5 µl/Lane, Art.-Nr. 850471) in different concentrations of LE Agarose
Electrophoresis conditions: 6 V/cm, 2 h

Microwave Instructions for Agarose Preparation

- Choose a beaker that can hold 2-4 times the volume of the desired solution.
- Add room temperature 1X or 0.5X electrophoresis buffer and a stir bar to the beaker.
- Slowly sprinkle in the agarose powder into the liquid while rapidly stirring to prevent clumping.
- Remove the stir bar if not Teflon® coated.

- Weigh the beaker and solution before heating.
- Cover the beaker with plastic wrap and pierce a small hole in the wrap for ventilation.
- Heat the beaker in the microwave oven on high power until bubbles appear.
- Remove the beaker from the microwave oven. Caution: Any microwaved solution may become superheated and foam over when agitated.
- GENTLY swirl the beaker to resuspend any settled powder and gel pieces and reheat the beaker on high power until the solution comes to a boil. Hold at boiling point for until all of the particles are dissolved (approx. 1 minute).
- Remove the beaker from the microwave oven and GENTLY swirl the beaker to thoroughly mix the agarose solution.
- After dissolution, add sufficient hot distilled water to obtain the initial weight and mix thoroughly.
- Cool the solution to 50ºC-60ºC prior to casting.

Hot Plate Instructions for Agarose Preparation

- Choose a beaker that can hold 2-4 times the volume of the desired solution.
- Add room temperature 1X or 0.5X electrophoresis buffer and a stir bar to the beaker.
- Slowly sprinkle in the agarose powder into the liquid while rapidly stirring to prevent clumping. Weigh the beaker and solution before heating.
- Cover the beaker with plastic wrap and pierce a small hole in the wrap for ventilation.
- Bring the solution to a boil while stirring.
- Maintain gentle boiling until all the agarose is dissolved (approximately 10 minutes).
- Add sufficient hot distilled water to obtain the initial weight.
- Mix thoroughly and cool the solution to 50°C-60°C prior to casting.

Ordering Information

Catalogue No.	Size
840001	25 g
840000	125 g
840004	500 g
840006	2 x 500 g

Contact

For more information about this or other Biozym products, please contact us at:
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For Research Use.
Not for use in *In-Vitro* Diagnostic Procedures.

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