

Biozym LE GeneticPure Agarose

Introduction

Biozym LE GeneticPure Agarose is specifically designed for the preparative DNA electrophoresis. It has a standard gelling/melting temperature and offers a high gel strength for reliable and easy handling. Biozym LE GeneticPure has been thoroughly tested in order to ensure that preparative electrophoresis can be performed and DNA recovered without damaging its properties and structure. Exceptionally low absorption of staining agents and a very low gel background are further features of Biozym LE GeneticPure Agarose

Biozym LE GeneticPure Agarose has no detectable DNase or RNase activity.

Specifications

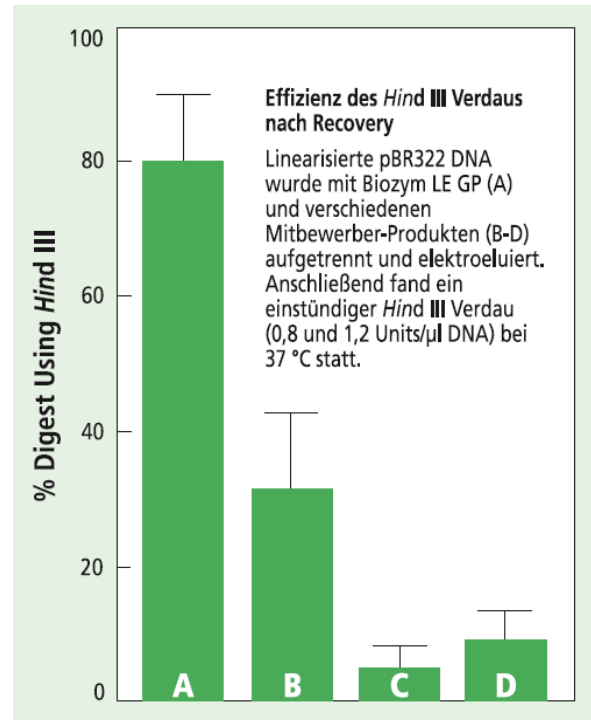
Moisture:	≤ 10%
Electroendosmosis:	0.09-0.13
Sulphate:	≤ 0.15%
Gel Strength 1%:	≥ 1200 g/cm ²
Gelling Temperature 1.5%:	36 ± 1.5°C
DNase/ RNase activity:	None detected
DNA binding:	None detected

Applications

- Nucleic acid analytical and preparative electrophoresis ≥ 1,000 bp
- Blotting assays
- Recovery of DNA fragments for further applications

Precautions

Please refer to Material Safety Data Sheet for safety and handling information. Always wear eye protection when dissolving agarose and guard yourself and others against scalding solutions.



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
800 – 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

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 50°C-60°C 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
850071	25 g
850070	125 g
850074	500 g

Contact

For more information about this or other Biozym products, please contact us at:

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or visit our website at

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For Research Use.

Not for use in *In-Vitro* Diagnostic Procedures.

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