

Biozym Gold Agarose

Introduction

Biozym Gold has a very high molecular weight and produces strong intercatenary interaction for gels with very high gel strength and higher exclusion limits. It forms easy-to-handle gels even at very low concentrations (0.3%).

Biozym Gold is suitable for rapid resolution of megabase DNA by pulsed field gel electrophoresis (PFGE).

Biozym Gold agarose has no detectable DNase or RNase activity.

Specifications

Moisture:	≤ 10%
Electroendosmosis:	≤ 0.05
Sulfate:	≤ 0.12%
Gel Strength 1%:	≥ 1800 g/cm ²
Gel Strength 1.5%:	≥ 3500 g/cm ²
Gelling Temperature 1.5%:	36 ± 1.5°C
Melting Temperature 1.5%:	≥ 90°C
DNase/ RNase activity:	None detected

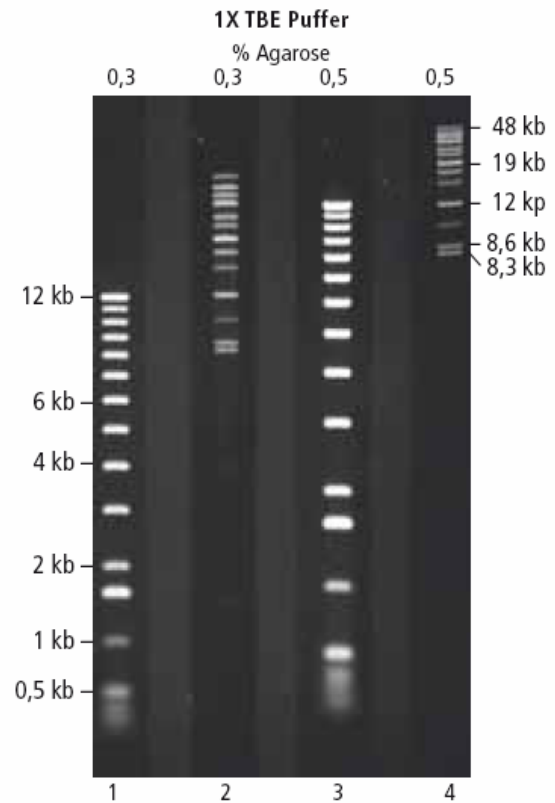
Applications

- Preparative DNA and RNA electrophoresis
- Pulsed Field Gel Electrophoresis
- Analysis of Long PCR reactions
- Separation and further manipulation of DNA ≥ 1,000 bp
- Blotting of DNA and RNA.

Recommended Agarose Concentrations

Size Range (base pairs)	Final Agarose Concentration % 1 x TAE Buffer
5,000 – 50,000	0.3
1,000 – 20,000	0.5
800 – 10,000	0.8
400 – 8,000	1.0

Auftrennung von DNA im Bereich unter 50 kb



Auftrennung einer 1 kb-Leiter und eines High Molecular Weight Markers in 0,3 %igen und 0,5 %igen Biozym Gold Gelen. Horizontales Gel, Laufstrecke 25,5 cm, 5 mm mit Laufpuffer überschichtet. Elektrophorese: 1 V / cm, für 20 Stunden

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.

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

Catalog No.	Size
850152	25 g
850150	125 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 or Manufacturing Use Only: Not for use in In-Vitro Diagnostic Procedures

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