

# Agarose D1 low EEO GQT

Cat. 8017

Agaroses

## Practical information

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Industry: Molecular biology / PCR and Electrophoresis / Cloning / Proteomics / NGS

## Principles and uses

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Agarose D1 Low EEO is used in nucleic acid analytical and preparative electrophoresis, blotting and protein electrophoresis such as radial immunodiffusion.

Some important characteristics are:

- Extraordinary mechanical resistance for more reliable and easier handling.
- Possibility of varying pore size in accordance with particle size by modifying the gel concentration.
- Easy preparation of the gel by simple dilution in aqueous buffers either by standard boiling or microwaving.
- Greater thermal stability due to high hysteresis ( difference between gelling and melting temperatures).
- Excellent transparency of the gel and high visibility.
- Exceptionally low absorption of staining agents.
- Absence of toxicity (polyacrylamide is neurotoxic).

GQT Agarose is similar to D-1 LE, a standard gelling/melting temperature agarose with high gel strength.

This agarose is GQT (Genetic Quality Tested) which ensures that preparative electrophoresis can be performed and DNA recovered without damaging its properties and structure. D-1 LE GQT gels can be used in Molecular Biology techniques.

## Physical-chemical characteristics

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Description	Specification
Ash	<=0,4%
Sulfate	<=0,1%
Clarity 1,5 % (NTU)	<=3
Gel strength 1% (g/cm <sup>2</sup> )	>= 1200
Gel strength 1,5% (g/cm <sup>2</sup> )	>= 2500
Gelling temperature 1,5 % (°C)	36 ± 1,5
Temperature melting 1,5% (°C)	88 ± 1,5
DNase/RNase activity	Non detected
Gel background	Very low after EtBr staining
DNA binding	None detected
DNA resolution	Bands appear sharp and finely resolved
Inhibition to restriction enzymes and ligase	None detected

## Storage

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Temp. Min.:2 °C  
Temp. Max.:25 °C