

## LM GQT Agarose

Cat. 8091

Agarose with a high resolution for DNA fragments larger than 1000 b.p.

### Practical information

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

### Principles and uses

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LM GQT Agarose is a low melting temperature agarose with the highest resolving capacity for large DNA fragments (>1000 b.p.), including PCR products. This agarose is GQT (Genetic Quality Tested) certified. This ensures that In-Gel applications can be performed in remelted agarose, avoiding difficult DNA extraction steps.

LM GQT Agarose is ideal for digestion by agarase enzymes, which makes it very easy to recover large DNA fragments suitable for cloning or enzymatic processing.

LM Agaroses are classified in three categories, depending on the degree of derivatization. Gelling / melting temperatures and gel strength are the most important differences.

Some important features are:

- Lower gel strength than standard agaroses. Even so, gels can be handled easily.
- Higher clarity (gel transparency) than gels of standard agaroses.
- Great sieving capacity.

### Physical-chemical characteristics

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Description	Specification
Ash	<= 0,4%
Gel strength 1% (g/cm <sup>2</sup> )	>= 250
Gelling temperature 1,5 % (°C)	24-28 °C
Melting temperature 1,5% (°C)	<= 65,5 °C
DNase/RNase activity	None detected
EEO	<= 0,12
Moisture	<= 10%
Color	White
Appearance	Fine, homogeneous powder
DNA binding	None detected
Comparative assay of different size DNA fragments	Bands appear sharp and finely resolved
Background fluorescence assay in ethidium bromide	Very low gel background after EtBr staining
In-Gel restriction and ligation( assayed enzymes: EcoRI, HindIII and DNA t4 ligase)	Passes test
Digestion with agarase enzyme and DNA recovery	Passes test
Sulphate	<= 0,1%

### Storage

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Temp. Min.:2 °C  
Temp. Max.:25 °C