

Agarose LM - Molecular Biology Grade

For applications requiring low gel/melt temperature

Introduction

Low Melting (LM) Agarose is a low melting temperature agarose with the highest resolving capacity for large DNA fragments, ≥ 1000 bp, including PCR products. Low melting temperature allows for the recovery of undamaged nucleic acids below denaturation temperature. Low gelling temperature ensures In-Gel applications can be performed in remelted agarose, avoiding difficult DNA extraction steps. Agarose LM is ideal for digestion by agarose enzymes, which makes it very easy to recover large DNA fragments suitable for cloning or enzymatic processing.

Materials

- Low Melt Agarose (GoldBio Catalog # A-204)

Applications

- Electrophoresis of DNA fragments ≥ 1000 bp
- Preparative electrophoresis
- Tissue and cell culture
- Analysis and recovery of large DNA fragments for further applications
- In-Gel enzymatic processing (digestion, ligation, PCR)

Features

- DNA resolution: bands appear sharp and finely resolved
- DNase/RNase activity: none detected
- DNA binding: none detected
- Gel background: very low after EtBr staining

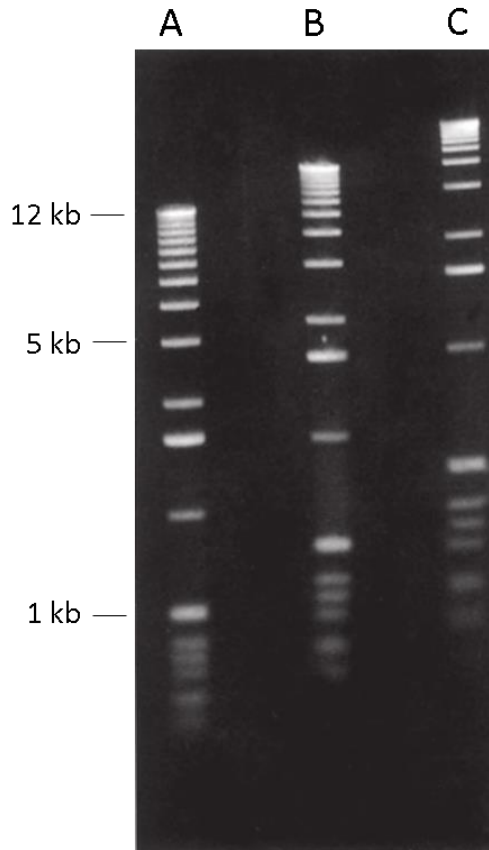
Storage/Handling

Store at room temperature.

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Technical Specifications

EEO (Electroendomosis)	≤0.10
Sulfate	≤0.10%
Gel Strength (1.0%)	≥200 g/cm ²
Gelling Temperature	26-30°C
Melting Temperature	≤65.5°C
DNase/RNase Activity	None Detected



Agarose LM at different concentrations.
 A-0.75%, B-1%, C-1.25%
 Marker-1kb Ladder, 0.5 µg/lane

Running conditions:
 1X TAE buffer, 4.5 V/cm,
 2 hours 30 min.