

Agarose MS-4

Molecular Screening - DNA Resolución < 500 pb

Practical information

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

Principles and uses

Agarose MS-4 is a molecular screening agarose for improved resolution of DNA fragments with 500 bp or less, especially primer-sized fragments.

At 3 % concentration, Agarose MS-4 gives a resolution of DNA fragments similar to gels made with polyacrylamide at concentrations of 8 %. While MS-4 may be dissolved carefully by microwaving, gels are best prepared by autoclaving.

Some important features are::

- Excellent resolution of DNA fragments lower than 500 bp, especially smaller primer-sized fragments.
- Forms a very clear, transparent gel, even at concentrations of 5% or higher.
- Efficient mechanical handling at all concentrations. The chances of gels breaking or cracking when handled are greatly minimized.

Physical-chemical characteristics

| Description | Specification |
|-----------------------------|---------------|
| Ash | <=0,3% |
| Sulfate | <=0,11 |
| EEO | <=0,12 |
| Moisture | <= 10% |
| Clarity 3% (NTU) | <=6 |
| Gel strength 3% (g/cm2) | >=500 |
| Gel strength 5% (g/cm2) | >=1000 |
| Gelling temperature 3% (°C) | <=31 |
| Temperature melting 3% (°C) | <=76 |

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C