

Agarose MS-12

For the molecular screening of DNA fragments smaller than 1500 b.p.

Practical information

Industry: Culture media for Molecular biology / PCR and Electrophoresis / Cloning

Principles and uses

This molecular screening agarose is designed to have a larger gel network than MS-8 and is recommended for the separation of DNA fragments smaller than 1500 bp.

Gels made with MS-12 have higher gel strength than competitive products. The gel is exceptionally firm but still flexible when handled, minimizing the danger of cracking or breaking.

MS-12 has the same melting and gelling temperature as regular agaroses, allowing faster and easier preparation of gels. MS-12 also gives excellent resolution at concentrations of =1 %.

This agarose is recommended for all analytical applications, especially when DNA is recovered for subsequent use in enzymatic procedures.

Physical-chemical characteristics

Description	Specification
Ash	<= 0,35%
Clarity 1,5 % (NTU)	<= 5
Gel strength 1,5% (g/cm ²)	>= 2000
DNase/RNase activity	None detected
EEO	<= 0,12
Moisture	<= 10%
Color	White
Appearance	Fine, homogeneous powder
DNA binding	Very low
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
Gel strength 4% (g/cm ²)	>= 4200
Gelling temperature 4% (°C)	<= 40 °C
Melting temperature 4% (°C)	<= 93 °C
Sulphate	<= 0,11%

Storage

Temp. Min.:2 °C
Temp. Max.:25 °C