MS-12 AGAROSE

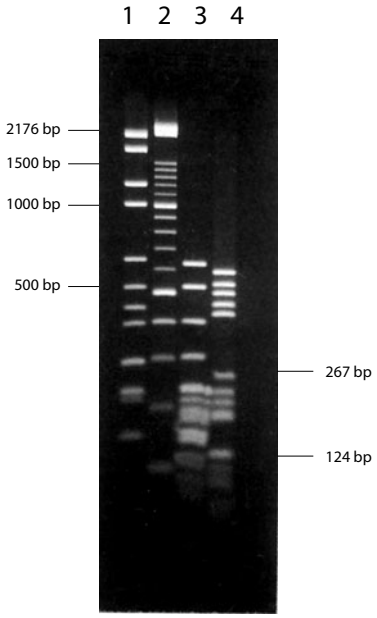
Hispanagar
Oceans of Experience

This molecular screening agarose is designed to have a larger gel network than MS-8 and is recommended for use in 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 %.

MS-12 Agarose is recommended for all analytical applications, especially when DNA is recovered for subsequent use in enzymatic procedures.



MS-12 Agarose gel, 2% concentration in 0.5X TBE buffer.

Markers:

lane 1- pBR328DNA. BgII+pBR328DNA. HinfI.;
lane 2 - 100 bp ladder.;
lane 3 - pBR322DNA. MspI.;
lane 4 - Molecular weight marker V (Roche).

Electrophoresis conditions: submarine gel, 2 hours, 4.5 V/cm in 0.5X TBE buffer.

FUNCTIONAL TESTS

- ✓ *DNA resolution: bands appear sharp and finely resolved.*
- ✓ *DNAse/RNAse activity: none detected.*
- ✓ *Gel background: very low after EtBr staining.*
- ✓ *Blotting: very good transference for DNA fragments 154 – 2176 bp in 4 % gels.*
- ✓ *DNA binding: very low.*

SPECIFICATIONS

* EEO (electroendosmosis)

	1.5%	4%
Moisture	≤ 10 %	
Ash	≤ 0.35%	
EEO*	≤ 0.12	
Sulfate	≤ 0.11%	
Clarity (NTU)	≤ 5	
Gel Strength (g/cm²)	≥ 2000	≥ 4200
Gelling Temperature (°C)		≤ 40
Melting Temperature (°C)		≤ 93

RANGES OF SEPARATION

2%	500 – 1500 bp
4%	150 – 600 bp

These ranges are approximate and have been calculated in 1X TAE buffer.