





MS-4

A molecular screening agarose for improved resolution of DNA fragments with 500 bp or less, especially sized-primer fragments. MS-4 is a type of agarose unique to CONDA. At 3 % concentration, MS-4 Agarose 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.

Features

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

Functional Tests

- DNA resolution: bands appear sharp and finely resolved.
- DNAse/RNAse activity: none detected.
- Gel background: very low after Et.Br. staining.
- DNA binding: very low.

Specifications

MS-4	3 %	5 %
≤ 7%		
≤ 0.3%		
≤ 0.12		
≤ 0.11%		
	≤ 6	
	≥ 500	≥ 1000
	≤ 31	
	≤ 76	
	≤ 7% ≤ 0.3% ≤ 0.12	≤ 7% ≤ 0.3% ≤ 0.12 ≤ 0.11% ≤ 6 ≥ 500 ≤ 31

^{*}EEO (electroendosmosis)

1 2 3 500 bp 320 bp 190 bp 124 bp 100 bp 80 bp 60 bp 20 bp

MS-4 Agarose gel, 4% in 0.5XTBE buffer.
Markers: lane 1- Molecular weigth marker VIII (Roche)
lane 2-Molecular weigth marker V (Roche)
lane 3-10 bp ladder.
Electrophoresis conditions: submarine gel, 2 hours 30
min., 4.5 V/cm in 0.5XTBE buffer.

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IS-6 METAGEL

MS-6 Agarose is a high quality agarose specially formulated for molecular screening. With MS-6 Agarose CONDA brings you an agarose with an improved efficiency resolution of small DNA fragments and PCR products.

Features

- High resolution capacity close to the resolution of polyacrylamide gels.
- Improved clarity of the gel, enhancing visualization, even at high concentrations.
- High gel strength which enables an easy handling even when used at lower concentrations.

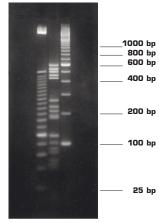
Functional Tests

- DNA resolution: bands appear sharp and finely resolved.
- DNAse/RNAse activity: none detected.
- Gel background: very low after Et.Br. staining.
- DNA binding: very low.

Specifications

	MS-6
Moisture	≤7%
Ash	≤ 0.3 %
EEO*	≤ 0.12
Sulfate	≤ 0.1 %
Clarity (3%) (NTU)	≤ 4
Gel strength (3%) (g/cm²)	≥ 800
Gelling Temperature (3%) (°C)	≤ 35
Melting Temperature (3%) (°C)	≤ 75

^{*}EEO (electroendosmosis)



MS-6 3% Agarose gel in 1XTAE buffer. Markers: lane 1 – 25 bp ladder lane 2 – Molecular weight marker V.

lane 3 - 100 bp ladder

Electrophoresis conditions: submarine gel, 2h 30 min, 4.5 V/cm in 1XTAE buffer.