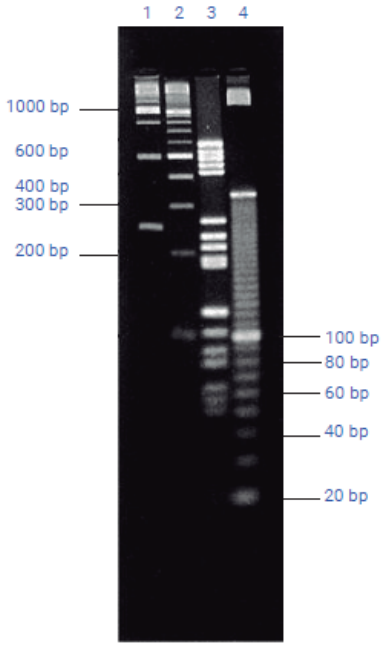
MicroMesh Agarose

(Equivalent to MetaPhor)

HB50184

An agarose for molecular screening that improves resolution of small DNA fragments and PCR products.

The key to producing the MS (Molecular Screening) agaroses is harvesting the appropriate seaweed at precise time in its growth cycle. There are also certain modifications in the chemical structure of the polymer during the manufacturing process . MicroMesh agarose is suitable for applications that require efficient separation of small DNA fragments and PCR products.



Agarose gel 3,0% concentration in 1XTAE buffer.
Markers:
· Lane 1 - 250 bp ladder.
· Lane 2 - 100 bp ladder.
· Lane 3 - Molecular weight marker V.
· Lane 4 - 10 bp ladder.
Electrophoresis conditions: 2 hours ; 4.5 V/cm in 1XTAE buffer.

FEATURES :-

- High resolution of short PCR products and DNA fragments .
- Improved clarity of the gel, enhancing visibility.
- Better handling than competitive products because of a stronger gel structure and higher gel strength. The chances of gels breaking or cracking when handled are greatly minimized , even with lower concentrations of agarose.
- High gel strength allows use in blotting.

FUNCTIONAL TEST :-

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

SPECIFICATIONS :-

		1,5%	3,0%
Moisture:	≤ 10%		
Ash:	≤ 0,35%		
*EEO:	≤ 0,12%		
Sulfate:	≤ 0,12%		
Clarity:		≤ 5NTU	
Gel strength:		≥ 600 g/cm²	≥ 1500 g/cm²
Gelling temperature:			≤ 35,5 °C
Melting temperature:			≤ 80,0 °C

RANGES OF SEPARATION :-

1,8%	400–1200 bp
3,0%	150–800 bp
4,5%	15–400 bp

These ranges are approximate and have been calculated in 1XTAE buffer
To achieve the best resolution of MicroMesh agarose gels ,
they should de stored at 4-8 °C for 30 minutes before use.