



## MS-8 Agarose

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

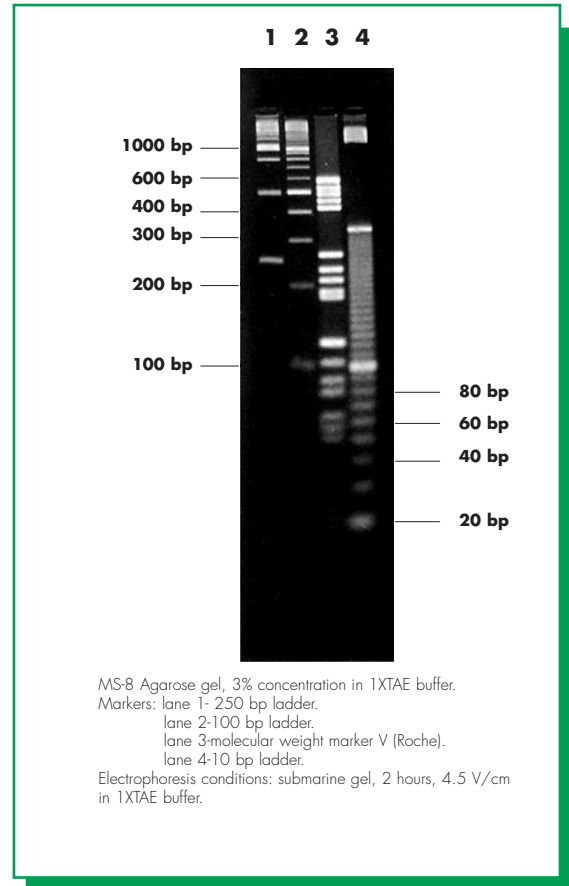
The key factor contributing to the creation of the family of MS (Molecular Screen) agaroses has been the harvesting of the appropriate seaweed at a specific time in its cycle of maturity. There are also certain modifications in the chemical structure of the polymer during the manufacturing process. Conda has produced MS-8 Agarose for applications that require efficient separation of small DNA fragments and PCR products.

### Features:

- High resolution of short PCR 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 Tests:

- 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 %    |
|-----------------------------------|---------|--------|
| Moisture                          | ≤ 7%    |        |
| Ash                               | ≤ 0.35% |        |
| EEO                               | ≤ 0.12% |        |
| Sulfate                           | ≤ 0.11% |        |
| Clarity (NTU)                     | ≤ 5     |        |
| Gel Strength (g/cm <sup>2</sup> ) | ≥ 600   | ≥ 1500 |
| Gelling Temperature (°C)          | ≤ 35.5  |        |
| Melting Temperature (°C)          | ≤ 80    |        |

### Ranges of separation:

|      |               |
|------|---------------|
| 1.8% | 500 – 1000 bp |
| 3.0% | 150 – 600 bp  |
| 4.5% | 50 – 350 bp   |

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

To achieve the best resolution of MS- 8 Agarose gels, they must be stored at 4° - 8° C for 30 minutes before use.