



Agarose Products

For Molecular Biology

Agarose electrophoresis is an indispensable tool in molecular biology. Critical to the success of this technique is the availability of highly purified agarose that has been carefully blended to provide uniform lot-to-lot reproducibility. EMD Chemicals' OmniPur® line has agarose gels to fit all your electrophoresis needs.

OmniPur® agarose products are carefully purified for your most demanding applications and guaranteed to be

DNase, RNase, and protease free. Band visualization is enhanced due to the high gel transparency and low ethidium bromide background fluorescence. All of our agarose products undergo rigorous quality control testing. Each lot is performance tested for nuclease/protease activity, band sharpness, separation, and reproducibility of results. In addition to our general-use agarose, we also offer a number of other specially formulated products to meet additional requirements or more complex procedures.

Agarose

DNase, RNase, Protease	None detected
Gel Strength (1.5%)	> 1200 g/cm ²
Gelling Range (1.5%)	36-39°C
Melting Range (1.5%)	87-89°C
EEO (-Mr)	< 0.10
Sulfate	< 0.15%

Product Number Size

2120	100 g
2125	500 g

For general separations, OmniPur® Agarose is a multi-use agarose for all but the most demanding and specialized electrophoresis needs.

Low Melting Agarose is ideally suited for applications such as in-gel restriction digestion/ligation and DNA recovery where a fluid medium is required. Low Melting Agarose at 1% forms a very manageable clear gel that will provide excellent resolution and melting characteristics. It will melt at approximately 65°C and remain fluid at 37°C for at least 24 hours, providing an excellent matrix for enzymatic manipulation of your samples.

Agarose, Low Melting

DNase, RNase, Protease	None detected
Gel Strength (1.0%)	> 250 g/cm ²
Gelling Range (1.0%)	24-29°C
Melting Range (1.0%)	62-68°C
EEO (-Mr)	< 0.12
Sulfate	< 0.1%

Product Number Size

2070	100 g
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In response to the demand for fine resolution of DNA fragments without the hazards of acrylamide, we have developed Super Fine Resolution (SFR) Agarose. DNA bands differing in size by 2% can be resolved between 200–1,000 bp. SFR Agarose is suitable for the analysis of AMPFLP's, STR's, and tetranucleotide repeats. By varying the concentration of agarose between 2% and 5%, resolution can be focused on the separation of small DNA fragments (20–2,000 bp). Gels made with SFR Agarose exhibit superior clarity without loss of manageability.

Agarose, Super Fine Resolution

DNase, RNase, Protease	None detected
Gel Strength (1.5%)	> 500 g/cm ²
Gelling Range (1.5%)	25–29°C
Melting Range (1.5%)	65–69°C
EEO (-Mr)	< 0.10
Sulfate	< 0.11%

Product Number	Size
2080	25 g
2081	100 g
2082	250 g

Agarose, PCR Plus

DNase, RNase, Protease	None detected
Gel Strength (1.5%)	> 2000 g/cm ²
Gelling Range (1.5%)	34–38°C
Melting Range (1.5%)	85–89°C
EEO (-Mr)	< 0.12
Sulfate	< 0.10%

Product Number	Size
2005	25 g
2010	100 g
2020	500 g

OmniPur® PCR Plus Agarose is a blend of agarose developed to provide high resolution of small nucleic acid fragments and PCR products. It is specifically designed for resolution of DNA fragment less than 1,000 bp and provides precise banding patterns without smearing or high background fluorescence. The high gel strength (> 2,000 g/cm²) provides easy-to-handle gels that are optimal for blotting applications.

For the separation of larger fragments, we offer OmniPur® High Gel Strength Agarose. This agarose can be used at lower gel concentrations. Higher exclusion limits can be achieved because of the more compact gel structure and higher strength (> 3,200 g/cm²). These concentrations allow for resolution of large fragments of DNA (500 kbp) without sacrificing gel strength. This is an excellent gel for pulsed-field applications like chromosomal analysis.

Agarose, High Gel Strength

DNase, RNase, Protease	None detected
Gel Strength (1.5%)	> 3200 g/cm ²
Gelling Range (1.5%)	36–38°C
Melting Range (1.5%)	86–90°C
EEO (-Mr)	< 0.12
Sulfate	< 0.12%

Product Number	Size
2090	100 g

For more product information please visit www.emdchemicals.com/analytics

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EMD Chemicals' products are warranted only to conform to the specifications set forth on their label/packaging. EMD Chemicals' sole responsibility under its warranty is replacement of non-conforming products. The entire warranty is available for review at www.emdchemicals.com/analytics/literature/warranty.asp. All products sales are subject to EMD Chemicals' standard terms and conditions of sale.

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