

GellyPhor[®]



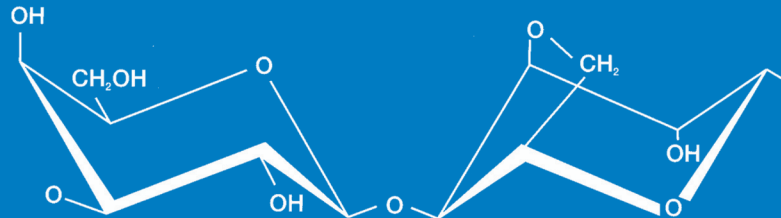
Pure quality

[Euroclone agaroses]

Euro⊖*clone*[®]



Agarose is a neutral polysaccharide extracted from the cellular walls of certain *Rhodophyceae algae* belonging to the genera *Gelidium*, *Gelidiella*, *Pterocladia*, *Gracilaria* and *Ahnfeltia*. These algae are also known as **agarophyte seaweed** because they are used as raw material in the production of agar-agar. This polysaccharide is a galactan, formed by the agarobioses shown in the illustration, joined by links 1-3, 1-4.



This chemical structure gives agarose the capacity to form gels that are very resistant even at low concentrations. These gels have a macroreticular structure with a very open mesh which can be adjusted simply by varying the concentration of agarose. The macroreticule of the agarose gel is formed by hydrogen bonds, a physical characteristic which makes the gel absolutely reversible, being transformed into a solution by heating. Its hysteresis, the difference between gelling and melting temperature, is greater than any other hydrocolloid, a unique property. In addition, the absence of ionic groups makes the gel a neutral structure, with no interaction with hydrophilic macromolecules that can, therefore, migrate through the gel mesh, making the gel an efficient sieve for these particles.

GellyPhor[®] LE



GellyPhor[®] LE is ideal for blotting and general nucleic acids preparative and analytical gel electrophoresis. This matrix sharply resolves the different DNA fragments to be analyzed and provides consistent resolution from batch-to-batch. This molecular biology grade agarose is guaranteed DNase and RNase activity free and forms high strength gels with low background upon ethidium bromide. The low electroendosmosis value (EEO) of **GellyPhor[®] LE**, DNA will have a high electrophoretic mobility allowing shorter running time. **GellyPhor[®] LE** is also recommended for protein gel electrophoresis in applications such as Ouchterlony and radial immunodiffusion (RID).

TECHNICAL SPECIFICATION

Gelling temp. (1.5%):	36° ± 1.5°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.15%
EEO, (-m _v):	0.09 - 0.13
Gel strength (2%):	≥ 1200g/cm ²
RNase/DNase activity:	None detected

ORDER INFORMATION

Code	Description	Format
EMR010100	GellyPhor[®] LE	100g
EMR010500	GellyPhor[®] LE	500g
EMR010001	GellyPhor[®] LE	1kg

GellyPhor[®] LM



GellyPhor[®] LM is a low melting temperature agarose. This molecular biology grade agarose produces gels with greater sieving properties and higher clarity than standard melting temperature agarose.

The low melting temperature of **GellyPhor[®] LM** makes it ideal for preparative nucleic acids electrophoresis, while its low gelling temperature is perfect for cloning of tissue culture cells and viral plaque assays. **GellyPhor[®] LM** has no detectable DNase or RNase activity.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	26° - 30°C
Melting temp (1%):	65°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.10%
EEO, (-m _r):	0.10
Gel strength (2%):	≥ 200 g/cm ²
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR911100	GellyPhor[®] LM	100g

GellyPhor[®] LML



GellyPhor[®] LML is an engineered agarose matrix used for separating DNA product fragments greater than 1,000 bp. This low melting temperature agarose (melting temperature 65°C) is ideally suited for direct enzymatic manipulation of nucleic acids in remelted agarose without additional DNA purification. It is also compatible with PCR and sequencing reactions carried out in the presence of remelted agarose gel.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	26° - 30°C
Melting temp (1%):	65°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.10%
EEO, (-m.):	≤ 0.10
Gel strength (2%):	≥ 200g/cm ²
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR913025	GellyPhor[®] LML	25g
EMR913100	GellyPhor[®] LML	100g

GellyPhor[®] LMS



GellyPhor[®] LMS is a low melting temperature agarose (melting temperature 65°C) that finely resolves DNA fragments, PCR and RT-PCR products ranging from 10 to 1,000 bp. **GellyPhor[®] LMS** forms easy-to-handle gels and provides consistent DNA mobility from batch-to-batch. Cloning procedures can be performed directly in remelted **GellyPhor[®] LMS**, eliminating costly and time-consuming DNA extraction steps. This agarose is also compatible with reactions carried out in the presence of the remelted agarose gel. **GellyPhor[®] LMS** is tested and certified for reliable ligation and transformation of DNA directly in a remelted agarose gel.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	35°C
Melting temp (1%):	65°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.15%
EEO, (-m _r):	0.15
Gel strength (2%):	≥ 500g/cm ²
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR914025	GellyPhor[®] LMS	25g
EMR914100	GellyPhor[®] LMS	100g

GellyPhor[®] ULTRA



GellyPhor[®] ULTRA is an intermediate melting temperature agarose that provides twice the resolution capabilities of the finest sieving agarose products. You can resolve DNA fragments, PCR and RT-PCR products, differing in size by 2%, in the range of 20bp to 800bp, by horizontal gel electrophoresis. For example, a 200bp DNA fragment can be separated from a 204bp fragment. Using fast running protocols DNA differing in size by 1% can be resolved in as little as 1.5 hours in a 20cm long horizontal or vertical gel format. **GellyPhor[®] ULTRA** agarose gels (2% to 4%) approximate the resolution of polyacrylamide gels (4% to 8%). These agarose gels are ideal for resolving AMPFLPs, STRs, and tri and tetranucleotide repeats.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	35°C
Melting temp (1%):	75°C
Moisture content:	≤ 10%
EEO, (-m _p):	0.05
Gel strength (2%):	≥ 300g/cm ₂
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR915025	GellyPhor[®] ULTRA	25g
EMR915100	GellyPhor[®] ULTRA	100g

GellyPhor[®] HR



GellyPhor[®] HR is a molecular biology grade, standard melting temperature agarose that yields strong gels for fine resolution of small nucleic acids fragments shorter than 1 kb. These easy-to-handle gels enhance the speed of gel processing and blotting. Performance testing of **GellyPhor[®] HR** ensures fine resolution of DNA fragments up to 1,000 bp, though this agarose is capable of finely resolving DNA fragments ranging from 10 bp up to 1,500 bp. **GellyPhor[®] HR** is designed for analytical electrophoresis.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	32.5 - 38°C
Melting temp (1%):	90°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.15%
EEO, (-m ₁):	0.13
Gel strength (2%):	≥ 1,400 g/cm ²
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR912100	GellyPhor[®] HR	100g

GellyPhor[®] PFGE



GellyPhor[®] PFGE is a very high gel strength, low EEO, standard gelling temperature agarose. This engineered agarose matrix allow the rapid resolution of megabase DNA by pulsed field gel electrophoresis (PFGE). Due to its very low EEO, the electrophoretic mobility of DNA in **GellyPhor[®] PFGE** gels is significantly greater than in conventional agarose gels. Run times for PFGE can be decreased by as much as 50% depending upon buffer and agarose concentration. Due to its high gel strength, **GellyPhor[®] PFGE** forms easy-to-handle gels at low concentrations (as low as 0.5%), which allow the separation of larger DNA fragments by conventional electrophoresis as well as a decrease in the time needed to separate DNA by PFGE.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	34.5 - 37.5°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.10%
EEO, (-m _r):	0.05
Gel strength (2%):	≥ 1,800g/cm ²
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR916100	GellyPhor[®] PFGE	100g

GellyPhor[®] PLUG



GellyPhor[®] PLUG is a low gelling temperature agarose useful for preparing chromosomal DNA samples prior to PFGE. **GellyPhor[®] PLUG** is certified for chromosomal DNA preparation and restriction endonuclease digestion within an agarose gel plug.

TECHNICAL SPECIFICATION

Gelling temp (1.5%):	26 - 30°C
Melting temp (1%):	70°C
Moisture content:	≤ 10%
Sulfate:	≤ 0.15%
EEO, (-m _p):	0.10
Gel strength (2%):	≥ 400g/cm ²
RNase/Dnase Activity:	None Detected

ORDER INFORMATION

Code	Description	Format
EMR917001	GellyPhor[®] PLUG	1g
EMR917005	GellyPhor[®] PLUG	5g

GellyPhor[®]

application guide

	GellyPhor [®] LE	GellyPhor [®] LM	GellyPhor [®] LML	GellyPhor [®] LMS	GellyPhor [®] ULTRA	GellyPhor [®] HR	GellyPhor [®] PFGE	GellyPhor [®] PLUG
DNA separation 1kb - 2Mb								
DNA/RNA separation ≤ 1kb								
DNA/RNA separation ≥ 500bp								
DNA separation 20-800bp								
Blotting								
In-gel reaction								
DNA fingerprinting								
Nucleic acids recovery								

GellyPhor[®] family

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EMR913025	GellyPhor [®] LML	25g
EMR913100	GellyPhor [®] LML	100g
EMR914025	GellyPhor [®] LMS	25g
EMR914100	GellyPhor [®] LMS	100g
EMR915025	GellyPhor [®] ULTRA	25g
EMR915100	GellyPhor [®] ULTRA	100g
EMR912100	GellyPhor [®] HR	100g
EMR916025	GellyPhor [®] PFGE	25g
EMR916100	GellyPhor [®] PFGE	100g
EMR917001	GellyPhor [®] PLUG	1g
EMR917005	GellyPhor [®] PLUG	5g

www.euroclone.net

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