

FT-A2X2G0



## Agarose PFGE

Agarose for gel with very high gel strength and higher exclusion limit

### Product Description

<b>Name :</b>	<b>Agarose PFGE</b>			
<b>Catalog Number :</b>	A2X2G0, 100g A2X2G1, 500g			
<b>Specifications :</b>	Moisture	$\leq 7\%$	Gel Strength 1.5% (g/cm <sup>2</sup> )	$\geq 3200$
	Ash	$\leq 0.25\%$	Gelling Temperature 1.5% (°C)	36±1.5
	EEO (electroendosmosis)	$\leq 0.12$	Melting Temperature 1.5% (°C)	88±1.5
	Sulfate	$\leq 0.12\%$	DNase/RNase activity	None detected
	Clarity 1.5% (NTU)	$\leq 4$	DNA resolution $\geq 1000$ bp	Finely resolved
	Gel Strength 1% (g/cm <sup>2</sup> )	$\geq 1800$	Gel background	Very low
<b>Applications :</b>	<ul style="list-style-type: none"> <li>Conventional Electrophoresis: can be used in a wide range of concentrations.</li> <li>Pulsed Field Gel Electrophoresis: because of its higher exclusion limit, larger molecules can be separated.</li> <li>Blotting</li> <li>Agarose Beads preparation.</li> <li>Cell and enzyme immobilization.</li> </ul>			

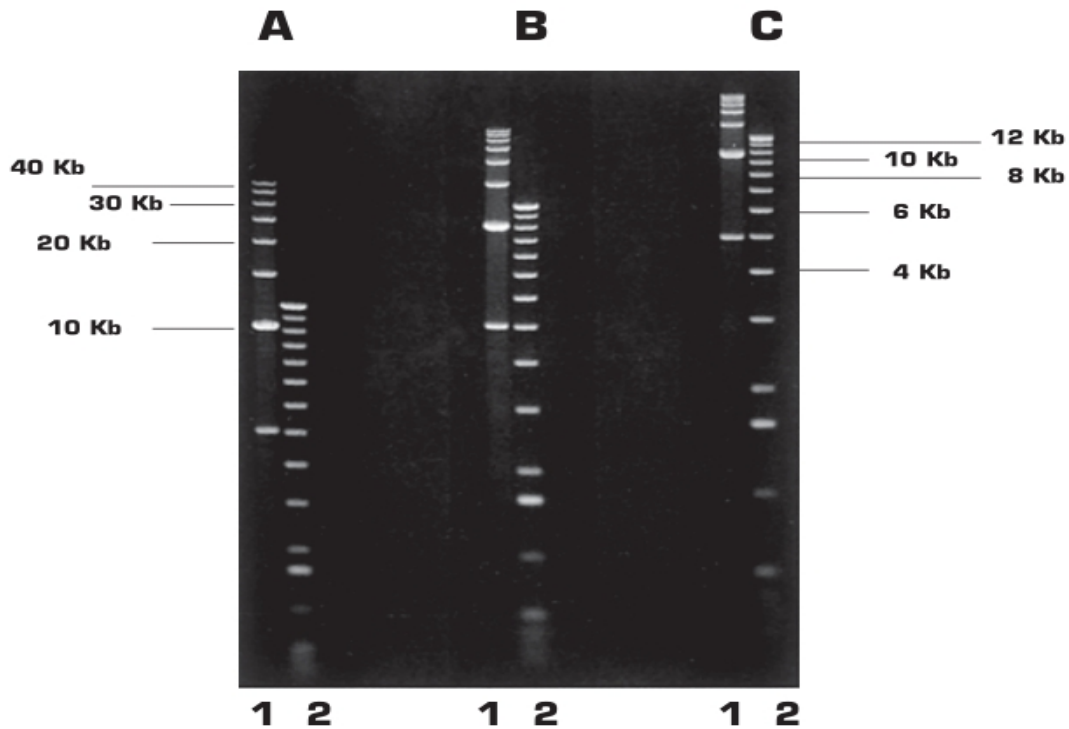
**Storage:** Room temperature (Z)

### Introduction

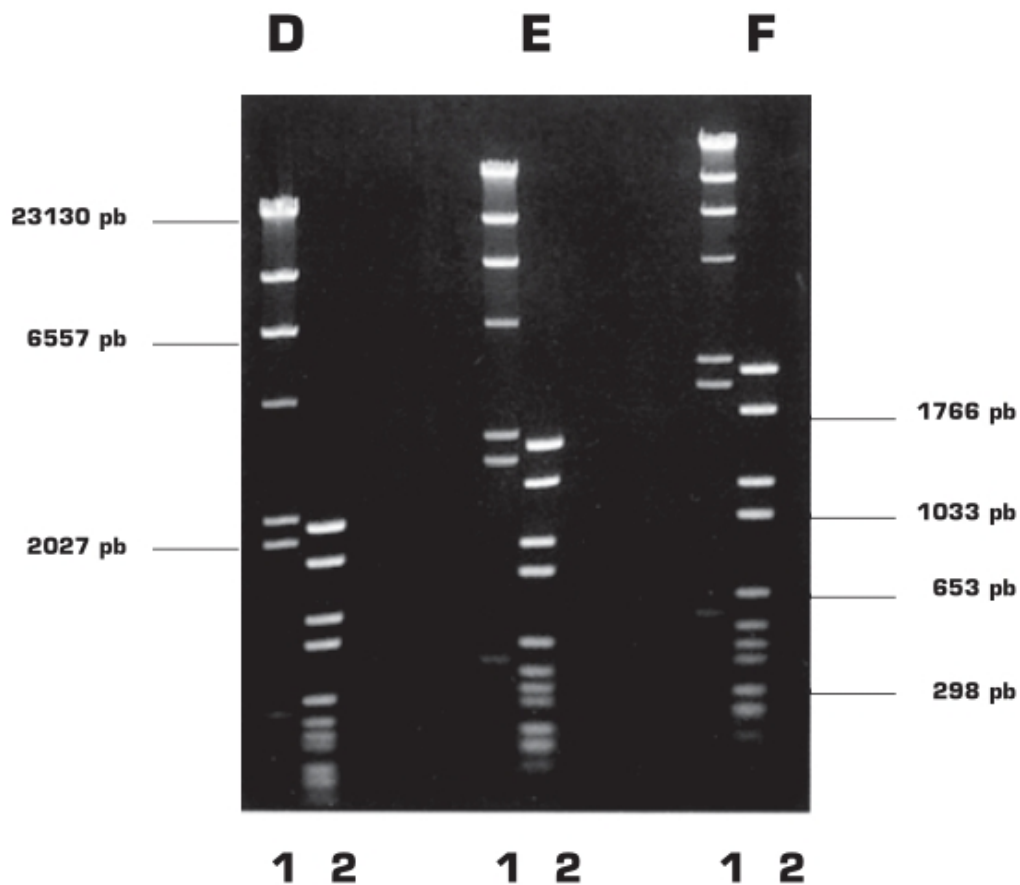
Agarose PFGE is a linear polymer with a very high molecular weight, giving gel structures unlike those of traditional agaroses. This characteristic, added to the very low sulfate content, produces an strong intercatenary interaction, yielding a gel with very high gel strength and higher exclusion limit.

As we can see in the following photographs, Agarose PFGE is suitable for a **wide variety of ranges**, just by modifying its concentration.

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Agarose PFGE gels in 1 X TAE. A-0.3%, B-0.5%, C-0.8%. Markers: lane 1-5 kb, lane 2-1 kb ladder. Electrophoresis conditions: submarine gel, 16 hours, 1 V/cm. in IXTAE buffer.



Agarose PFGE gels in 1 X TAE. D-0.5%, E-1%, F-1.5%. Markers: lane 1-Lambda DNA. HindIII, lane-2-pBR328DNA. BglI + pBR328DNA. Hindfl. Electrophoresis conditions: submarine gel, 2 hours, 4.5 V/cm. in 1XTAE buffer.

## Technical and Scientific Information

- Extremely high gel strength allowing for lower gel concentrations (0.3%), enabling it to be used not only with high molecular weight nucleic acids, including chromosomes, but also with large sized particles like viruses and ribosomes.
- High electrophoretic mobility. DNA mobility is greater when compared with Agarose, regular use. Electrophoresis times are reduced depending upon buffer and agarose concentration used.
- Easy preparation of the gel by simple dissolution in aqueous buffers either by standard boiling or microwaving.
- Greater thermal stability due to high hysteresis (difference between gelling and melting temperatures).
- Exceptionally low absorption of staining agents.
- Absence of toxicity (the alternative is polyacrylamide which can be toxic).

## Ordering information

Catalog size quantities and prices may be found at <http://www.interchim.com>.  
Please inquire for higher quantities (availability, shipment conditions).

For any information, please ask : Uptima / Interchim; Hotline : +33(0)4 70 03 73 06

[Order on-line](#) or [Contact](#) your local distributor

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