

AS-108 D-5 Agarose (Pulsed Field Gel Electrophoresis)

D-5 Agarose 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 a strong intercatenary interaction, yielding a gel with very high gel strength and higher exclusion limit.

Features:

- 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 D-1LE. 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.

Applications:

- Conventional Electrophoresis: can be used in a wide range of concentrations.

- Pulsed Field Gel Electrophoresis: because of its higher exclusion limit, larger molecules can be separated.

- Blotting.

- Agarose Beads preparation.

- Cell and enzyme immobilization.

The product is stable for one (1) year upon receipt.

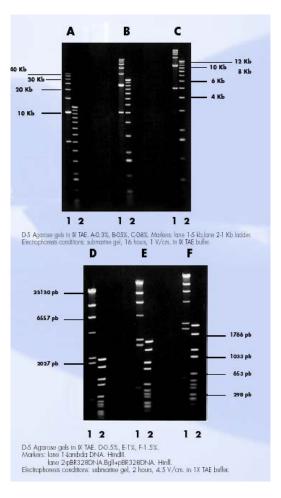
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Specifications:

*EEO (electroendosmosis)

AS-108	
D5 Agarose PF (Gel Electrophoresis)	
Lot. N°	D00007
Moisture	≤ 6.40%
Ash	≤ 0.15 %
EEO*	≤ 0.11
Sulfate	≤ 0.080%
Clarity (NTU)	≤ 2.60
Gel Strength (g/cm ²)	≥ 1,850
Gel Strength 1.5% (g/cm ²)	≥ 4.020
Gelling Temperature (°C)	36,2
Melting Temperature (°C)	88,1
DNAse/RNAse activity	None Detected
DNA resolution \geq 1000 bp	Finely Resolved
Gel background	Very Low



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