

Smart Agarose

Smart Agarose is an agarose ideal for routine rapid separation of DNA and RNA fragments as well as PCR products, the preparation of plasmids, and for screening, cloning and blotting techniques.

Features:

- Easy dissolution and rapid gelling.
- Excellent transparency and low background staining gives clear band visibility.
- Sharp and well defined bands.
- Very low DNA binding.

Applications:

- BioMax has high gel strength even at low concentrations, so use rates are 0.75 – 2%.
- It is effective in blotting and in separations of nucleic acid fractions from 250 bp to 23 Kb.



Markers:

- Lane 1: 1 Kb ladder
- Lane 2: 250 bp ladder
- Lane 3: 100 bp ladder

Specifications & Functional Tests:

Ash	≤ 0.45%
Sulfate	≤ 0.15%
Clarity 1.5% (NTU)	≤ 4
Gel Strength 1% (g/cm ²)	≥ 1000
Gel Strength 1.5% (g/cm ²)	≥ 2000
Gelling Temperature 1.5% (°C)	36 ± 1.5
Melting Temperature 1.5% (°C)	88 ± 1.5
DNase/RNase activity	None detected

Order Information:

Description	Cat No.
Smart Agarose 100 G	SB101-100G
Smart Agarose 500 G	SB101-500G

LE Agarose

Low EEO Agarose, High electrophoresis mobility

Suitable for:

- Nucleic acid analytical of fractions from 250 bp to 23 Kb
- Preparative electrophoresis
- Blotting
- Protein electrophoresis ex. radial immunodiffusion

Features:

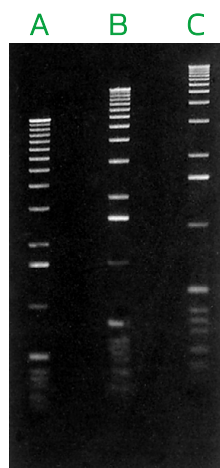
- Extraordinary mechanical resistance for more reliable and easier handling.
- Possibility of varying pore size in accordance with particle size by modifying the gel concentration.
- Easy preparation of the gel by simple dilution in aqueous buffers either by standard boiling or microwaving.
- Greater thermal stability due to high hysteresis (difference between gelling and melting temperatures).
- Excellent transparency of the gel and high visibility.
- Exceptionally low absorption of staining agents.
- Absence of toxicity (polyacrylamide is neurotoxic).

Specifications & Functional Tests:

*EEO (electroendosmosis)	D-1LE/QS
Moisture	≤ 10%
Ash	≤ 0.4%
EEO*	0.05–0.13
Sulfate	≤ 0.1%
Clarity 15% (NTU)	≤ 3
Gel Strength 1% (g/cm ²)	≥ 1200
Gel Strength 1.5% (g/cm ²)	≥ 2500
Gelling Temperature 1.5% (°C)	36 ± 1.5
Melting Temperature 1.5% (°C)	88 ± 1.5
DNase/RNase activity	None detected
DNA resolution ≥ 1000 bp	Finely resolved
Gel background	Very low

Order Information:

Description	Cat No.
LE Agarose 100 G	SB102-100G
LE Agarose 500 G	SB102-500G



D1-LE Agarose gels in 1X TAE buffer

A-0.75%, B-1%, C-1.25% Marker: 1Kb ladder.

Electrophoresis conditions: submarine gel, 2 hours 30 min, 4.5 V/cm in 1X TAE buffer.

