

AS-110 NuSieve 3:1 AGAROSE

NuSieve 3:1, a standard gelling/melting temperature agarose, is designed for analytical electrophoresis where high resolving capacity is required. **DNA fragments 100 -1500 bp and PCR products < 1000bp** can be finely resolved.

The viscosity is low, so it is easy to make gels at high concentrations which have a very high resolving capacity.

Solutions of 4% or higher are feasible because of this low viscosity.

Because of the high gel strength, gels can also be prepared at lower concentrations, 1.0-1.5%. Gels are strong, flexible and very easy to handle.

These features make NuSieve 3:1 gels compatible with blotting of small fragments.

Applications:

- Analytical and high resolution separations
- Blotting techniques

Functional test:

- DNA resolution: bands appear clear, sharp and finely resolved
- DNase/RNase activity: none detected
- Gel background: very low after EtBr staining
- Blotting: very high transference of small DNA fragments, even at high concentration
- DNA binding: very low

Specifications:

AGAROSE	NUSIEVE
Moisture	≤ 10%
Ash	≤ 0.4%
EEO*	≤ 0.13
Sulfate	≤ 0.15%
Clarity 4% (NTU)	≤ 4
Gel strength 4% (g/cm ²)	≥ 1400
Gelling temperature 4% (°C)	≤ 32.5-38
Melting temperature 4% (°C)	≤ 90
DNase/RNase activity	None detected

* EEO (electroendosmosis)

Ranges of separation:

2%	500 – 1500 bp	
4%	150 – 600 bp	