

D-1 LE GQT Agarose

GQT Agarose is similar to D-1 LE, a standard gelling/melting temperature agarose with high gel strength.

This agarose is GQT (Genetic Quality Tested) which ensures that preparative electrophoresis can be performed and DNA recovered without damaging its properties and structure. D-1 LE GQT gels can be used in Molecular Biology techniques.

Features:

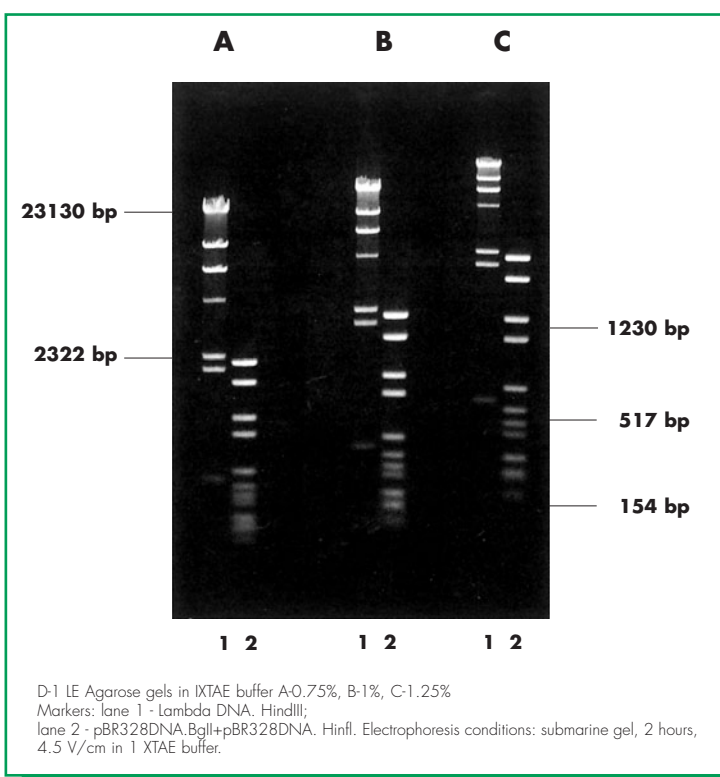
- Extraordinary mechanical resistance for more reliable and easier handling.
- Possibility of varying pore size in accordance with particle size by modifying the gel concentration.
- Easy preparation of the gel by simple dissolution in aqueous buffers either by standard boiling or microwaving.
- Greater thermal stability due to high hysteresis.
- Excellent transparency of the gels.
- Low absorption of staining agents.
- Absence of toxicity.

Applications:

- Analytical and preparative gel electrophoresis for nucleic acids ≥ 1000 bp.
- Blotting assays.
- Recovery of DNA fragments for further applications (enzymatic processing or cloning).

Functional Test:

- DNA resolution: bands appear sharp and finely resolved.
- DNase/RNase activity: none detected.
- DNA binding: none detected.
- Gel background: very low after EtBr staining.
- Inhibition to restriction enzymes and ligase: none detected.



Specifications:

D-1 LE GQT	
Moisture	$\leq 7\%$
Ash	$\leq 0.4\%$
EEO	0.05-0.13%
Sulfate	$\leq 0.1\%$
Clarity (NTU)	≤ 3
Gel Strength 1% (g/cm ²)	≥ 1200
Gel Strength 1.5 % (g/cm ²)	≥ 2500
Gelling Temperature (°C)	36 ± 1.5
Melting Temperature (°C)	88 ± 1.5