

D-2

D-2 Agarose has a higher gelling temperature than D-1 Agarose and Low EEO*. This gives higher thermal stability to the gels.

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 (difference between gelling and melting temperatures).
- Excellent transparency of the gels.
- Excellent elasticity and flexibility of the gels.
- Great capacity for derivatization and cross-linking, which allows coupling of enzymes, antigens and other substances to the gel structure.
- Exceptionally low absorption of staining agents.
- Absence of toxicity (the alternative is polyacrylamide which can be toxic).

Applications

- D-2: Nucleic acid electrophoresis.
 - Protein electrophoresis (immunoelectrophoresis and counterelectrophoresis).
 - Preparation of agarose beads.

Specifications and Functional Tests

| | D-2 |
|-------------------------------|-----------------|
| Moisture | ≤ 8% |
| Ash | ≤0.4% |
| EEO* | ≤ 0.14 |
| Sulfate | ≤ 0.2% |
| Clarity 1.5% (NTU) | ≤ 4 |
| Gel Strength 1% (g/cm²) | ≥ 900 |
| Gel Strength 1.5% (g/cm²) | ≥1200 |
| Gelling Temperature 1.5% (°C) | 42±1.5 |
| Melting Temperature 1.5% (°C) | 87±1.5 |
| DNAse/RNAse activity | None detected |
| DNA resolution ≥1000bp | Finely resolved |
| Gel background | Very low |

*EEO (electroendosmosis)

FP DNA

Finger Printing DNA Agarose is a powerful tool in laboratories performing forensic testing, paternity determination, cell line verification, tissue typing, etc. FP DNA Agarose meets all requirements for DNA identity applications.

Features ____

- Low EEO.
- High gel strength, forming easy-to-handle gels.
- No DNA binding.
- No DNAse and RNAse activity.
- Clear and sharp bands.
- High efficiency transfer for DNA (blotting).
- No smearing.
- No gel background.
- No variability in agarose quality and performance between batches.

Specifications and Functional Tests

| | FP DNA |
|-------------------------------|----------------------------------|
| Moisture | ≤ 7% |
| Ash | ≤ 0.4% |
| Sulfate | ≤ 0.14% |
| EEO* | ≤ 0.13 |
| Gel Strength 1% (g/cm²) | ≥ 1400 |
| Gelling Temperature 1.5% (°C) | 36±15 |
| Melting Temperature 1.5% (°C) | 88±1.5 |
| DNAse/RNAse activity | None detected |
| DNA binding | None detected |
| DNA background | None detected |
| DNA resolution | Clean and sharp bands produced |
| | when a 23 kb DINA |
| | size Standard is electrophoresed |
| | transferred and probed. |

*EEO (electroendosmosis)