Agarose D2

Cat. 8032

Used in nucleic acid and protein electrophoresis (immunoelectrophoresis and counter electrophoresis) and for the preparation of agarose beads.

Practical information

Industry: Molecular biology / PCR and Electrophoresis / Cloning / Proteomics / NGS

Principles and uses

Agarose D2 is used in nucleic acid and protein electrophoresis (immunoelectrophoresis and counter electrophoresis) and for the preparation of agarose beads. Agarose D2 has a higher gelling temperature than Agarose D1. This characteristic provides a greater thermal stability to the gels.

Some important features are:
- 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 in aqueous buffers either by standard boiling or dissolution 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.

Agarose D2 is used in nucleic acid electrophoresis, protein electrophoresis (immunoelectrophoresis and counterelectrophoresis) and preparation of agarose beads.

Physical-chemical characteristics

Description	Specification
Ash	<= 0,4%
Clarity 1,5 % (NTU)	<= 4
Gel strength 1% (g/cm2)	>= 900
Gel strength 1,5% (g/cm2)	>= 1200
Gelling temperature 1,5 % (ºC)	42±1,5 ºC
Melting temperature 1,5% (ºC)	87±1,5 ºC
DNase/RNase activity	None detected
EEO	<= 0,14
Moisture	<= 10%
Color	White
Appearance	Fine, homogeneous powder
DNA Resolution >= 1000 bp	Finely resolved
Comparative assay of different size DNA fragments	Clear and sharp bands
Background fluorescence assay in ethidium bromide	Very low
Sulphate	<= 0,2%

Storage

Temp. Min.:2 ºC
Temp. Max.:23 ºC