

Agarose LE

High Performance, General Purpose Agarose


Features:

- Multi-purpose, high purity
- Enhanced resolution and clarity
- Reduced background
- Low EEO/increased electrophoretic mobility
- RNase, DNase, Protease-free
- High hysteresis, improved thermal stability

Specifications:

Moisture: $\leq 7\%$
 EEO (electroendosmosis): $\leq 0.13\text{-m}$,
 Sulfate: $\leq 0.20\%$
 Gelling Temp. (at 1.5%): $36^\circ \pm 1.5^\circ\text{C}$
 Melting Temp. (at 1.5%): $88^\circ \pm 1.5^\circ\text{C}$
 Gel Strength (at 1.0%): $1200\text{g}/\text{cm}^2$
 Gel Strength (at 1.5%): $2500\text{g}/\text{cm}^2$
 DNase, RNase: Non detected
 Endonuclease: Non detected
 Protease: Non detected

Agarose LE is a highly purified agarose, suitable for a variety of molecular biology applications. It is refined using an advanced process that excludes the use of organic solvents, yielding a cleaner end-product with a significantly reduced environmental impact. Agarose LE can be used for analyses of proteins and nucleic acids of various sizes (150 bp to 25 kip).

It's low EEO ($\leq 0.13\text{-m}$) promotes increased electrophoretic mobility, yielding improved resolution and shorter run times. This also allows macromolecules and larger particles (subcellular fragments, viruses, etc.) to migrate more freely through the gel matrix. The consistently low EEO also provides a reduction in band distortion (caused by counterflow) that can result from the presence of excessive sulfate-rich negative ions.

Agarose LE is widely used for nucleic acid electrophoresis (analytical and preparative), protein electrophoresis (including radial immunodiffusion) and various blotting protocols. It is easily soluble, free of nucleases, and easy to use. It is highly transparent (forms a clear, colorless solution at $1\text{g}:100\text{mL H}_2\text{O}$), and exhibits exceptionally low absorption of chemical staining agents. Pore size can be adjusted by simple modifications to the concentration ratio.

Formulated for high gel strength and integrity, Agarose LE exhibits exceptional thermal stability and mechanical resistance, ensuring safe, easy handling, regardless of whether a denaturing agent has been added.

Cat. No.	Description	UOM
ES48801	Agarose LE, Organic Solvent Free, 25 gram	Each
ES48804	Agarose LE, Organic Solvent Free, 100 gram	Each
ES48807	Agarose LE, Organic Solvent Free, 500 gram	Each