

- [54] **HIGH GEL STRENGTH LOW ELECTROENDOSMOSIS AGAROSE**
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- [58] **Field of Search** **204/182.8, 299 R; 252/315.3; 536/3, 114, 127; 106/205**

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[57] **ABSTRACT**

Purified agarose suitable for rapid electrophoresis, characterized by a sulfate content of less than 0.2 wt % but greater than zero, a pyruvate content of 0-0.1 wt %, and a nitrogen content of 0-0.02 wt %. Gels prepared from the agarose exhibit a gel strength at 1.0 wt % concentration of at least 1200 g/cm², substantial absence of DNA binding in 0.07 M or less tris acetate buffer, and an electroendosmosis (EEO) at 1.0 wt % concentration of 0.05 or less. Agaroses are purified to provide the low EEO material by dissolving agarose or alkali-modified agar in an aqueous medium buffered at a pH of 6.0 to 8.0 and containing no more than 2.0 nM salt as chloride, and precipitating the agarose by contact with a lower alkanol.

23 Claims, No Drawings