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Cole

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(54) **ELECTROPHORESIS GELS**

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(58) **Field of Search** 204/469, 462, 204/613

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(57) **ABSTRACT**

The present invention provides electrophoresis apparatus and electrophoresis methods employing gellan gum based gels employing divalent metal cation and diamine cross-linking agents. The gels are reversible under conditions that do not damage the biomolecules separated using the gels. The present invention also provides novel gellan gum-based gels which are cross-linked which employ a diamine cross-linking agent.

24 Claims, 5 Drawing Sheets