

[54] **KIT FOR ELECTROPHORESIS GEL MEDIUM**

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[58] **Field of Search** **204/182.8, 182.9, 180.1, 204/299 R**

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[57] **ABSTRACT**

A polyacrylamide type gel medium for electrophoresis is conveniently and safely prepared prior to use from a kit which comprises (1) a water-soluble copolymer of an acrylamide monomer and at least one comonomer copolymerizable therewith, which comonomer contains functional groups that permit crosslinking of said copolymer by a covalent but non-free radical initiated mechanism; and (2) a selected crosslinking agent in a package that separates it from the copolymer. Optionally, additional materials that may be usefully incorporated in the gel may be included in the kit, for example, a selected electrophoresis buffer and a complexing agent, such as SDS. The kit is used to prepare the gel by forming a solution of the copolymer in deionized water at the desired concentration of copolymer, adding a sufficient amount of any optional ingredients to provide the desired concentrations thereof, adding such concentration of the crosslinking agent as will provide a gelation time of between about 5 minutes and about 15 hours, and pouring the so prepared reaction mixture into a preselected mold or casting device or onto a support so as to form the resulting gel into the desired shape and size.

3 Claims, No Drawings