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ACCEPTED MANUSCRIPT

Capillary electrophoresis for aluminum ion speciation: optimized separation conditions for complex polycation mixtures

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TITLE RUNNING HEAD. Optimizing aluminum chlorohydrate separations by CE

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Highlights

- Separation of aluminum chlorohydrates by capillary electrophoresis
- Optimization of pH, ionic strength and counterion concentration
- Ionic strength is the main parameter affecting the separation of polycations
- Separation of aluminum hydroxide colloids and aggregated forms of the polycations
- Optimal conditions are 700 mM morpholineethanesulfonic acid at 25 mM ionic strength

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