

Possible Conclusions for the Analysis of Anions and Cations with Capillary Electrophoresis (CE)

The identification of specific anions and cations can be made by using established methodology and Capillary Electrophoresis. Conclusions are made by comparing unknown anions and cations to standard anions and cations. Reporting of results is as follows:

1. Analysis of unknown cations revealed the presence of ammonium (NH_4^+), potassium (K^+), sodium (Na^+), magnesium (Mg^{+2}), barium (Ba^{+2}), and lead (Pb^{+2}).
2. Analysis of unknown anions revealed the presence of thiosulfate ($\text{S}_2\text{O}_3^{-2}$), chloride (Cl^-), sulfate (SO_4^{-2}), nitrite (NO_2^-), nitrate (NO_3^-), perchlorate (ClO_4^-), thiocyanate (SCN^-), and chlorate (ClO_3^-).