



## Ionic Strength Changes in Capillary Electrophoresis

When you change the Ionic Strength (Buffer Concentration) in your CZE method, the following changes can be expected.

**Joule Heating:** An increase in ionic strength (buffer concentration) will produce more heating. See the effects of change in temperature for effects.

**Viscosity:** An increase in ionic strength or buffer concentration will cause an increase in viscosity. See the effects of change in viscosity for effects.

**Electro Osmotic Flow:** High ionic strength buffers will cause a decrease in EOF.

**Analyte to Wall Interaction:** A higher ionic strength buffer (buffer concentration) can lessen or eliminate Protein to Wall interactions.

**Migration Time:** An increase in ionic strength buffers can increase your migration times.

**Resolution:** An increase in ionic strength buffers can increase your capillary selectivity and therefore resolution.

**Electrophoretic Mobility:** An increase in ionic strength (buffer concentration) can increase the electrophoretic mobility of your analytes.