

What makes a CE buffer perform differently from another buffer - FAQ

The most important parameters of precise EOF are the conditions that create it. The capillary wall and the run buffer work together to create the electroosmotic flow and when either of these parameters vary from batch to batch, the EOF will be different.

Making a CZE buffer is much different than making other common laboratory buffers. The background electrolyte (BGE) of the buffer helps to create current and voltage and must be in the same concentration for each buffer lot to help assure precise EOF. Predicting the concentration of solutions before they are mixed is imperative, as you cannot back-titrate to your desired pH if you overshoot. The reason is an increase in BGE will cause different conductivity.

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