

Zone electrophoresis is similar to moving boundary electrophoresis in that it uses a homogeneous buffer solution to separate proteins. This format usually employs a support medium or matrix to decrease convection current and avoid uncontrolled sample diffusion. In most cases, the matrix has an additional sieving action that affects electrophoretic separation. Samples for ZE separation are enclosed in an electrophoretic solution buffer and separated in the matrix for a predetermined amount of time. After the separation operation is completed, components of the sample with comparable qualities are divided into a separate zone.