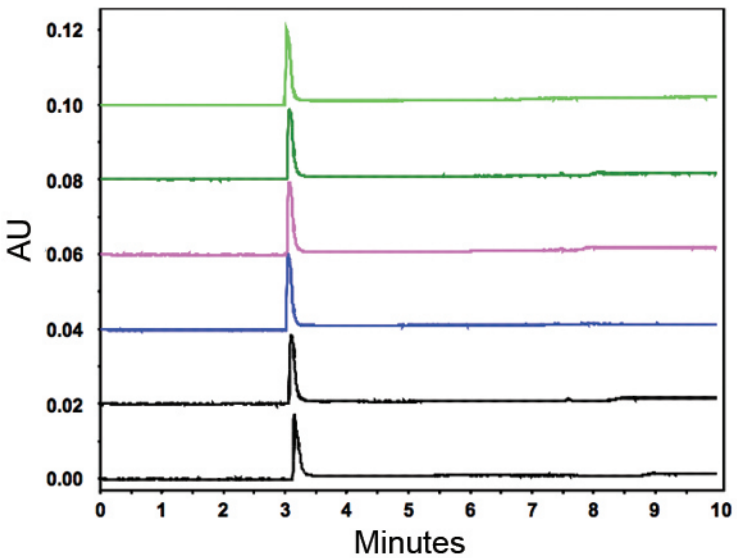
Meridian™ Capillary Coating Kit for Capillary Electrophoresis

Meridian™ Kit

Protea's Meridian Capillary Coating Kit for Capillary Electrophoresis (CE) is a proprietary formulation designed to coat fused silica capillaries for formation of a stable capillary surface to allow multiple CE separations at pH 3 to 6. The coating is regenerated at the beginning of each run to ensure a stable and reproducible surface and separation each time. The coating is effective in preventing peptide/protein adsorption onto the fused silica capillary walls, resulting in longer capillary lifetimes. Near zero EOF conditions are achieved with coated fused silica capillaries, allowing separation of either positive or negative analytes by electrophoresis. The contribution of EOF to electrokinetic flow instabilities is minimized, and analytes are separated solely on the basis of electrophoretic mobility. The CE coating process is incorporated into the automated CE method, thereby avoiding need for long and laborious coating processes that are the case with most permanent coating methods.

The Meridian Capillary Coating Kit can improve the quality and reproducibility of your low pH (pH 3 to 6) capillary electrophoresis analyses:

- CE analysis of peptide digests
- CE analysis of peptide and protein mixtures
- CE analysis of other biomolecules, such as DNA, carbohydrates, and phospholipids



Electropherograms from six consecutive CE analyses of a 100µM BSA sample solution in a 31cm long 75µm ID fused silica capillary treated with Protea's Meridian capillary coating. The BSA sample was hydrodynamically injected for 3 seconds at 0.3 PSI, and the separation carried out at 15.0kV for 10 minutes in 25mM phosphate buffer (pH 3), with UV detection at 214nm.