



PRODUCT INFO SHEET

INSTCoating Solution for Capillary Electrophoresis

Description

BT200-01 INSTCoating solution provides instant coating to reduce or eliminate electroosmotic flow (EOF) in capillary electrophoresis applications. When rinsed through the capillary, the novel, pre-made polymer in the solution is adsorbed onto the inner wall of silica tubing, forming a highly uniform, stationary coating layer through dynamic interactions. The coating on the surface is insensitive to buffer type, pH, chaotropic agents or surfactants, and it doesn't have absorbance above 250 nm. The whole coating procedure is fast and simple. The INST-Coating solution can be used as a replacement of and provides significant cost savings over linear polyacrylamide coating.

Packing List

Please check kit components immediately after you receive this package. Please notify us of any missing item. BIOTAQ is not responsible for any missing items not reported within two (2) business days of receipt.

Catalog Number	Product Name	Unit	Volume
BT200-1	INSTCoating Solution for Capillary Electrophoresis	1 vial	2 ml

Operating Protocol:

1. INSTCoating solution is intended for use on new bare fused silica capillary that has never been treated or coated with other chemicals before.
2. Prior to coating, place 0.1M NaOH, DD water, INSTCoating solution and running buffer (the buffer that you use for your applications) into four different reservoirs.
3. Pressurize the reservoir that contains 0.1M NaOH to push it into the fused silica tubing and flush it for 5 minutes.
4. Pressurize the reservoir that contains DD water to push it into the fused silica tubing and flush it for 2 minutes.
5. Pressurize the reservoir that contains INSTCoating solution to push it into the fused silica tubing and flush it for 2 minutes.
6. Pressurize the reservoir that contains DD water to push it into the fused silica tubing and flush it for 3 minutes.
7. Pressurize the reservoir that contains running buffer to push it into the fused silica tubing and flush it for 4 minutes.
8. After the coating procedure is done, you can load your separation polymer and inject the sample into the capillary to proceed to the electrophoresis separation step.

Storage Conditions

The product is shipped at room temperature. We recommend storage at 4°C.

References

- Tůma P, Sustková-Fišerová M, Opekar F, Pavlíček V, Málková K. (2013). Large-volume sample stacking for in vivo monitoring of trace levels of γ -aminobutyric acid, glycine and glutamate in microdialysates of periaqueductal gray matter by capillary electrophoresis with contactless conductivity detection. *Journal of Chromatography A*, 1303, 94–99
- Tůma P, Opekar F, Samcová E, Stulík K. (2013). The use of a multichannel capillary for electrophoretic separations of mixtures of clinically important substances with contactless conductivity and UV photometric detection. *Electrophoresis*, 34, 2058–2064

This product or service is intended for research purposes only and is not intended for diagnostic purposes.