

## Visit our Website for Application Notes and Technical Data on CElixir™

Learn more about MicroSolv Technology's Other Products:

Visit our new website on the World Wide Web to download application notes on CElixir and other products for HPCE that MicroSolv Technology Corporation produces.

### Request any of the following CElixir brochures:

- What is CElixir?
- You can use pH as a Selectivity Tool.
- Using CElixir Dynamic Coating v. Bonded Capillaries
- pH Hysteresis
- Enhancing your Chiral Separations
- Protein Separations with CElixir
- Cost of CElixir v. HPLC
- CElixir Operating and Trouble Shooting Manual

Visit us at [www.MicroSolvTech.com](http://www.MicroSolvTech.com)

### Ordering Information

All MicroSolv Technology Products are sold through an International Network of qualified, technical sales organizations. Call MicroSolv or visit our website for the organization closest to you.

Cat. No.	Description	Cat. No.	Description
06001-CE	CElixir HPCE Column Kit, Buffered to pH 2.5	06143-CE-50	Accelerator Solution (B) pH 4.3 50ml Trial Size
06002-CE	CElixir HPCE Column Kit, Buffered to pH 4.3	06162-CE-240	Accelerator Solution (B) pH 6.2 240ml Replacement Size
06003-CE	CElixir HPCE Column Kit, Buffered to pH 6.2	06162-CE-50	Accelerator Solution (B) pH 6.2 50ml Trial Size
06004-CE	CElixir HPCE Column Kit, Buffered to pH 8.2	06182-CE-240	Accelerator Solution (B) pH 8.2 240ml Replacement Size
06005-CE	CElixir HPCE Column Kit, Buffered to pH 9.2	06182-CE-50	Accelerator Solution (B) pH 8.2 50ml Trial Size
06025-CE-20	Initiator Solution (A) 20ml Trial Size	06192-CE-240	Accelerator Solution (B) pH 9.2 240ml Replacement Size
06025-CE-80	Initiator Solution (A) 80ml Replacement Size	06192-CE-50	Accelerator Solution (B) pH 9.2 50ml Trial Size
06125-CE-240	Accelerator Solution (B) pH 2.5 240ml Replacement Size	05080-W	CEwater™ 80ml Replacement Size
06125-CE-50	Accelerator Solution (B) pH 2.5 50ml Trial Size	04050-C	MicroSolvCE™ Fused Silica Capillary 100cm, 50µ ID, 375µ OD
06143-CE-240	Accelerator Solution (B) pH 4.3 240ml Replacement Size	04051-C	MicroSolvCE Fused Silica Capillary 10m, 50µ ID, 375µ OD

Each HPCE Column kit contains, 240ml of Accelerator Solution, 80ml of Initiator Solution, 80ml of CEwater, 2 meters of capillaries, 1 cleaving stone and 1 Operating and Trouble-Shooting Manual.

## **MICROSOLV TECHNOLOGY CORPORATION**

LONG BRANCH, NJ USA • 1.732.229.3400



A Practical Approach to CZE for Practical Scientists



20mL Trial Size  
Now Available

## What Is CElixir™

CElixir is a patented, dynamic coating system that will make your CZE more reproducible and quantifiable. Two solutions are applied to a fused silica capillary producing a very stable polymeric coating on the wall. An abundance of charge is exposed to the lumen of the capillary and this high-density of charge produces a very fast and reproducible EOF. A very reproducible method from run to run, capillary to capillary or instrument to instrument is possible with CElixir.

## You can use pH as a Selectivity Tool

CElixir eliminates pH as a controlling parameter of your EOF. The dense layer of negative charge produced by CElixir overwhelms the other parameters and dictates the speed and flow of your EOF. This completely minimizes the effects pH will have on your EOF. Now you can ionize your analytes with any pH and not worry about EOF changes.

## Dynamic vs. Bonded Coated Capillaries

### CElixir™ can be fully Automated

Sample adsorption to the capillary wall is one of the main culprits producing inconsistent CZE. When you use the CElixir dynamic coating system instead of a bonded capillary or bare fused silica capillary, in each of your runs, the capillary is conditioned, method is run, then stripped and re-coated, minimizing wall adsorption effects. This is a very inexpensive and fully automatable process. This makes your installed capillary on your CE instrument last longer minimizing the time it takes to change and condition capillaries.

## You will not see pH Hysteresis

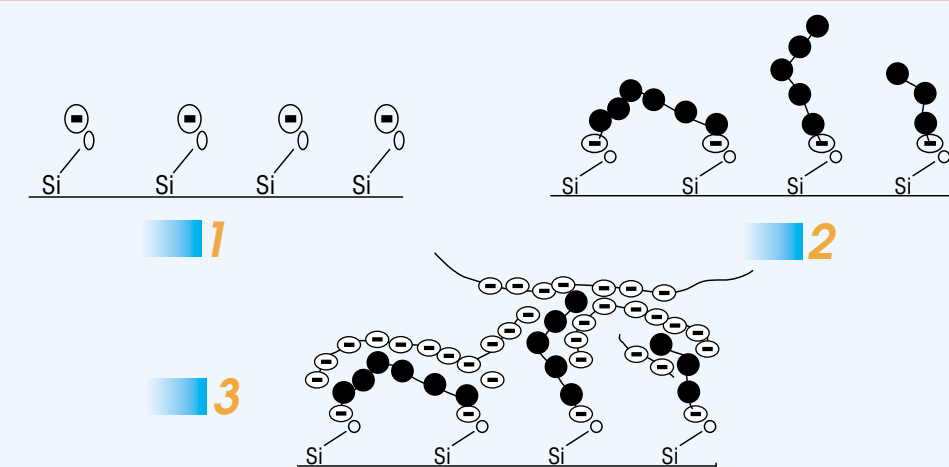
### A Very Low Coefficient of Variation

During normal CZE, pH Hysteresis is the constant, large changes in EOF due to small changes in pH. With bare fused silica capillaries in the acidic range, EOF is extremely slow to non-existent. At a basic pH on the same bare fused silica capillary, the EOF is very rapid. Also, a little known problem in CZE is the intra capillary hysteresis. At different points in the capillary (due to wall adsorption effects), the EOF will change. CElixir™ eliminates these effects. Not only do you attain reproducible %CV but also you can use pH as a selectivity tool or as a solubility tool.

## How To Use CElixir™

### Easy to Apply and Can be Automated

Using CElixir is very simple and robust. A complete Operating and Trouble Shooting Manual is included with every column kit and our Help Desk is available to assist you in your method development. Using CElixir, is as easy as these quick steps.



1. Condition your capillary with NaOH rinse for one minute.
2. Apply the CElixir Initiator Solution (A) to the conditioned Capillary to cover your capillary wall with our cationic polymer.
3. Apply the CElixir Accelerator Solution (B) to the conditioned Capillary wall. This final step applies the well-covered wall with our anionic polymer.
4. Inject your sample.
5. Strip off CElixir using NaOH and HCl. You are ready to make another run.