

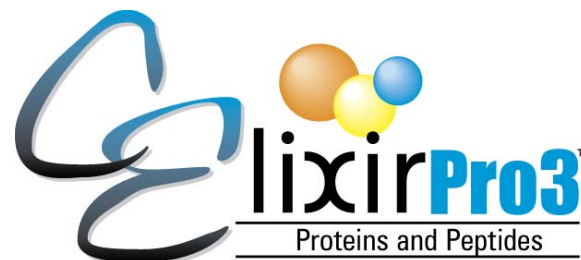
## 4.0 Mixing Buffers

Buffers at different pH values can be prepared by mixing CElixir-Pro3 Buffer pH=4 and CElixirPro3 Buffer pH=7.2 as follows:

<u>Desired pH:</u>	<u>Buffer pH=4</u>	<u>Buffer pH=7.2</u>
6.2	2.0g	8.0g
5.2	5.0g	5.0g
4.5	8.0g	2.0g

### Reordering Information:

06500-P3 CElixir-Pro3, kit for quantitative determinations of proteins and peptides by CE. 100 tests per kit.



# Operating Instruction Manual



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# CElixirPro3™

Kits for use with CE Quantitative Determinations of Proteins & Peptides

## Instructions for use.

### 1. Intended use and background:

This kit consists of poly-cation and poly-anion solutions that can be used for the quantitative determinations of proteins and peptides. The poly-cations and poly-anions will dynamically coat the inner surface of the capillary wall and produce a fast and consistent EOF (electroosmotic flow). Patent 5,611,903

### 2. Contents:

- CElixir-Pro Initiator: 10ml of poly-cation in NTMP buffer pH=7.2 as a ready to use reagent.
- CElixir-Pro Buffer pH4: 25ml of a poly-anion in NTMP buffer pH=4.0 as a ready to use reagent.
- CElixir-Pro Buffer pH7.2: 25ml of poly-anion in NTMP buffer pH=7.2 as a ready to use reagent.
- CElixir-Pro Diluent: 50ml of NTMP buffer pH=7.0 as a ready to use reagent.

*Not included in this kit: bi-distilled water, NaOH, 0.1M, capillary, vials and caps.*

### 3. Operating Instructions:

*This Operating Manual is written for the Beckman P/ACE MDQ—other instruments can be programmed differently.*

3.1 Capillary for use: Simplus™ or other brand of bare fused silica, 50um x 60cm or suitable lengths.

3.2 Instrument: Load CE Instrument as follows:

Buffer Inlet	Buffer Outlet
A1 Conditioner NaOH 0.1M	A1 Water 1ml
B1 Initiator 1.4ml	B1 Buffer 1.4ml
C1 Buffer 1.4ml	C1 Buffer 1.4ml
D1 Water 1.4ml	
E1 Buffer 1.4ml	

### 3.3 Capillary Initialization:

Time (min)	Event	Value	Duration	Inlet vial	Outlet vial	Summary	Comments
1	Separate - Pressure	50.0 psi	1.00 min	BI:A1	BO:A1	forward	1.4ml conditioner NaOH 0.1M - 1ml Water
2	Rinse - Pressure	50.0 psi	1.00 min	BI:B1	BO:A1	forward	1.4ml Initiator - 1ml Water
3	Rinse - Pressure	50.0 psi	2.00 min	BI:C1	BO:A1	forward	1.4ml Buffer pH=7.2 - 1ml Water
4	Rinse - Pressure	50.0 psi	1.00 min	BI:A1	BO:A1	forward	1.4ml Conditioner NaOH 0.1M - 1ml Water
5	Stop data						
6	End						
7							

### 3.4 Separation

#### 3.4.1 Initial Condition Settings:

Initial Conditions | UV Detector Initial Conditions | Time Program

Auxiliary data channels:  
 Voltage max: 30.0 kV  
 Current max: 300.0 µA  
 Power  
 Pressure

Mobility channels:  
 Mobility  
 Apparent Mobility  
 Plot traces after voltage ramp

Analog output scaling  
 Factor: 1

Temperature  
 Cartridge: 25.0 °C  
 Sample storage: 25.0 °C

Peak detect parameters  
 Threshold: 2  
 Peak width: 9

Trigger settings  
 Wait for external trigger  
 Wait until cartridge coolant temperature is reached  
 Wait until sample storage temperature is reached

Inlet trays  
 Buffer: 36 vials  
 Sample: 48 vials

Outlet trays  
 Buffer: 36 vials  
 Sample: No tray

#### 3.4.2 UV Detector Settings:

Initial Conditions | UV Detector Initial Conditions | Time Program

Electropherogram channel  
 Acquisition enabled  
 Wavelength: 200 nm  
 Data rate: 4 Hz

Filter  
 High sensitivity  
 Normal  
 High resolution  
 Peak width [points]: 16-25

Relay 1  
 Off  
 On

Relay 2  
 Off  
 On

Absorbance signal  
 Direct  
 Indirect

#### 3.4.3 Time Program Settings:

Time (min)	Event	Value	Duration	Inlet vial	Outlet vial	Summary	Comments
1	Rinse - Pressure	50.0 psi	0.50 min	BI:B1	BO:A1	forward	Initiator 1.4ml - Water 1ml
2	Rinse - Pressure	50.0 psi	1.00 min	BI:C1	BO:A1	forward, In vial inc 5	Accelerator - Water 1ml
3	Inject - Pressure	0.5 psi	8.0 sec	SI:A1	BO:C1	No override, forward	Sample - Water 1.4ml
4	Inject - Pressure	0.2 psi	3.0 sec	BI:D1	BO:B1	No override, forward	Post injection Water 1.4ml - Buffer 1.4ml
5	Separate - Voltage	20.0 KV	19.50 min	BI:E1	BO:B1	1.00 Min ramp, normal polarity, In / Out vial inc 5	Buffer 1.4ml
6	Autozero						
7	Rinse - Pressure	50.0 psi	0.50 min	BI:A1	BO:A1	forward	NaOH 0.1M - Water 1ml
8	Stop data						
9	End						
10							