

Beckman Coulter™ SYNCHRON CX® Systems

CAT NO:

APPLICATION PROCEDURE

A19611

Reagent Preparation: Ready-to-use

PROCEDURE:

1. Sample Preparation: An offline dilution is required. All samples, controls, and calibrators should be prediluted 1:10 with distilled or deionized water, prior to assaying.
2. Program a user-defined channel with the parameters listed below. For more detailed instructions, refer to the *SYNCHRON CX Clinical Systems Operating Instructions*.
3. The Lithium reagent is provided in a ready to use format.
4. Transfer the entire contents of reagent to Compartment B of the SYNCHRON cartridge.
5. Calibrate using the calibrator supplied with the kit as calibrator #1. The value of the calibrator is 2 mmol/L.
6. Manually load the cartridge.

INSTRUMENT PARAMETERS:

Test Name	LI
Reaction Type	ENDPOINT 2
Units	mmol/L
Decimal Precision	X.XX
Reaction Direction	DECREASING
Calculation Factor	0
Math Model	Linear
Calibration Time Limit	168 hr
Number of Calibrators	1
#1	2 mmol/L
Primary Wavelength	520 nm
Secondary Wavelength	470 nm
Sample Volume	3 µL

REAGENTS:

Primary Inject (first) / First Inject	
Compartment/Component	B
Volume/Dispense Volume	300 µL
Add Time/Inject Time	n/a
Primary Inject [second] / Second Inject	
Compartment/Component	None
Volume/Dispense Volume	0 µL
Add Time/Inject Time	n/a
Secondary Inject / Third Inject	
Compartment/Component	n/a
Volume/Dispense Volume	0 µL
Add Time/Inject Time	n/a
Blank	
Start Read	272 sec
End Read	304 sec
Reaction 1	
Start Read	128 sec
End Read	160 sec
Reaction 2	
Start Read	n/a
End Read	n/a

USUABLE RESULT RANGE:	SYNCHRON CX
Lower Limit	0
Upper Limit	3
ERROR DETECTION LIMITS:	
Reagent Blank/Blank	
ABS Low Limit	0.000
ABS High Limit	1.500
Reaction/Reaction 1	
ABS Low Limit	-0.700
ABS High Limit	1.500
SUBSTRATE DEPLETION:	
Initial Rate:	99.999
Delta ABS	1.500
MULTI POINT SPAN:	1-2: -0.001

***This is a preliminary instrument application and has not been validated or verified on the Beckman Coulter™ SYNCHRON CX® Systems analyzer. Each laboratory using this application is responsible for validating and verifying the performance of the application on their system.**

For further information on the use of this reagent, please consult the product insert, or contact Technical Support:
U.S. 1-800-528-0494, Option 2, International 1-540-869-3200

Fisher Diagnostics, a division of Fisher Scientific, a part of Thermo Fisher Scientific, 8365 Valley Pike, Middletown, VA 22645-1905 USA

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