



INSTALLATION QUALIFICATION

Customer Name

: Care Diagnostics

3rd cross, Neeladri Nagar,

Electronic City Phase I, opposite to ICICI Bank,

Bengaluru, Karnataka 560100

Instrument Model

: DIESTRO ELECTROLYTE INSTRUMENT

Instrument Serial No. : 2157

THE FOLLOWING CHECKS AND SETUPS ARE CARRIED OUT FOR **DIESTRO ISE ELECTROLYTE INSTRUMENT** FOR INSTALLATION QUALIFICATION.

1.	INSPECT SHIPPER FOR PHYSICAL DAMAGE Found any damage	NO
2.	INSPECT THE INSTALLATION SITE Clean Dust free Air- conditioned	YES
3.	INSTALLATION WORK BENCH Stable Capable of supporting 20 kg	YES
4.	BENCH SPACE TO ACCOMMODATE THE Following instrument dimensions (W x D x H) 430 x 300 x 330mm,	YES
5.	CLEARANCE FOR THE SYSTEM Minimum should be 30 cms al sides	YES
6.	OPERATIONAL ROOM ENVIRONMENT Temperature (12 -32 deg.C)	YES

7.	POWER REQUIREMENTS Operating voltage: 110-230 V Electrical grounded outlets	YES
8.	Verify all contents as per instrument kit list	YES
9.	Install the all three chambers	YES
10.	Install the 2.5A/230 V fuse & memory card	YES
11.	Install reagent pack	YES
12.	Install the printer paper roll	YES

The above mentioned check has been carried out and the installation qualifications for the instrument found satisfactory.

Protocol performed by: JK Biomed

Name

KALAIARASAN TR

Signature

Designation: SERVICE MANAGER

Date

: 06/03/2020



PERFORMANCE QULIFICATION

Customer Name

: Care Diagnostics

3rd cross, Neeladri Nagar,

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Instrument Model

: DIESTRO ELECTROLYTE INSTRUMENT

Instrument Serial No.

: 2157

Calibration Done on

: 06/03/2020

Calibration Due on

: 05/03/2021

THE FOLLOWING CHECKS AND SETUPS ARE CARRIED OUT FOR **DIESTRO ELECTROLYTE INSTRUMENT** FOR PERFORMANCE QUALIFICATION.

TRI LEVEL

QC

Exp Date 2021/10

Level -1

PARAMETER	MEASURED (MMOL/L)	RANGE (MMOL/L)
Na+	121.1	110 – 122 MEAN (116)
K+	2.01	1.85- 2.16 MEAN(2.00)
CI-	83.0	71 – 85 MEAN (77)

TRI LEVEL

QC

Exp Date 2021/10

Level -2

PARAMETER	MEASURED (MMOL/L)	RANGE (MMOL/L)
Na+	140.6	132 – 147 MEAN (140)
K+	3.98	4.13 – 4.51 MEAN(4.47)
CI-	100.2	89 – 104 MEAN(99)

DL No. : 21B-KA-B21-171806, 21B-KA-B21-171805, E-Mail : info@jkbiomed.com, varadharajan@jkbiomed.com

TRILEVEL QC Exp Date 2021/10

Level -3

		*
PARAMETER	MEASURED (MMOL/L)	RANGE (MMOL/L)
Na+	157.3	153-160 MEAN (161)
K+	8.03	6.61 – 7.70 MEAN (7.15)
CI-	120.1	107 – 125 MEAN(116)
	1	

TWO POINT CALIBRATION FOR ELECTRODES

PARAMETER	CAL VALUES (MMOL/L)	SLOPE (MMOL/L)
(a.e.	57.61	50. 64
Na+	57.30	50 – 64
φ.	61.04	5064
K+	60.63	50 – 64
CI-	50.86	40.54
	49.19	40 – 64

REPEATABILITY TEST FOR SAMPLE

PARAMETER	CAL VALUES (MMOL/L)	RANGES (MMOL/L)
Na+	134.5 134.4	135 – 148
K+	4.87 4.80	3.50 - 5.30
CI-	99.8 98.8	99 – 107

REMARKS: ALL MEASURED VALUE IS WITHIN THE TARGET RANGE FOR ALL THREE LEVELS OF CONTROLS AND CALIBRATION.

Protocol performed by: JK Biomed

Name

Designation: SERVICE MANAGER

Date

: 06/03/2020

Customer Authorization:

Name : $SUDHARSAN \cdot M$ Designation: LAI3 MANAGENSignature : 2Date : 06/03/2020.





OPERATIONAL QUALIFICATION

Customer Name

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Electronic City Phase I, opposite to ICICI Bank,

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Instrument Model

: DIESTRO ELECTROLYTE INSTRUMENT

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THE FOLLOWING CHECKS AND SETUPS ARE CARRIED OUT FOR DIESTRO ISE ELECTROLYTE INSTRUMENT FOR OPERATIONAL QUALIFICATION.

1.	DEFINE SETUP AS PER LABORATORY REQUIREMENTS	
	a) Q.C	YES
	b) SAMPLE	
	c) SYSTEM OPTIONS	
	d) PRINTER AND MEMORY	
	e) Fill Port Cleaner	
2.	PERFORM DIAGNOSTIC (SLOW SPEED & HIGH SPEED)	YES
	Check for Roller Pump	
		YES
3.	PERFORM DIAGNOSTIC CHECK FOR TUBINGS & VALVE	123
4.	PERFORM SAMPLE DETECTOR TEST FOR ELECTRODES CHAMBER	YES
_		22000
5.	PERFORM 2 POINT CALIBRATION	YES
_	DEDECORM CONDITIONING BY LIGHIC EDECH CERTINA/MILIOLE BLOOD	VEC
6.	PERFORM CONDITIONING BY USING FRESH SERUM/WHOLE BLOOD	YES
7.	PERFORM SAMPLE ASPIRATION IN MANUAL MODE	YES
7.	PERFORMI SAMIFLE ASPIRATION IN MANUAL MODE	123

1

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8. PERFORM FULL TWO POINT CALIBRATION

YES

(CALIBRATION PERFORMED BY THE INSTRUMENT ITSELF FOR REGULAR USAGE)

9. HANDING OVER AND USER TRAINING

YES

10. CHECKED FOR TRUE VALUE CHECK (Q.C) (REFFER PERFORMANCE QUALIFICATION FOR DETAILS)

YES

11. THE SYSTEM IS READY FOR SPECIFIC USAGE.

YES

Protocol performed by:

JK Biomed

Name

: KALAIARASAN TR

Designation: SERVICE MANAGER

Signature

Date

Customer Authorization:

Name: $SUDHARSAN \cdot M$ Designation: LAB MANAGENSignature: O6/3/2020



CALIBRATION CERTIFICATE

Customer Name

: Care Diagnostics

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Instrument Model

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Instrument Serial No. : 2157

Calibration Done on

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Calibration Due on

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QC

Exp Date 2021/10

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TRI LEVEL QC

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TRILEVEL QC Exp Date 2021/10 Level -3

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TWO POINT CALIBRATION FOR ELECTRODES

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	134.4	
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	98.8	

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Protocol performed by: JK Biomed

Name

: KALAIARASAN TR

Signature

Designation: SERVICE MANAGER

Date

: 06/03/2020

Customer Authorization:

Name

: SUDHARSAN. M

Designation: LAB MANAGEN

Signature : 1

Date