



CL MICROMED PVT. LTD.

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CALIBRATION REPORT

CALIBRATION DONE ON: 05/04/2021

CUSTOMER'S NAME AND ADDRESS:

Department Of Laboratory,
Abirami Kidney Care Pvt Ltd
581,582, Brough Road
Erode- 638 011

INSTRUMENT: BGA+E

MODEL: COMBILINEII+

SL NO: CL 2563

STATUS:

- PREVENTIVE MAINTENANCE DONE: YES
- FLOW PATH TUBINGS CLEANED WITH HYPOCHLORIDE: YES
- FLOW PATH CONDITION WITH WHOLE BLOOD: GOOD

MEASURING CHAMBER TEMPERATURE:

MEASURED TEMPERATURE(Deg cel)	DISPLAY TEMPERATURE(Deg cel)	ACCEPTED VARIATION(Deg cel)
37.0	36.9	± .3

MEASURED VOLTAGE (mV)								LIMIT (mV)						
	EO2	ECO2	EPH	E Na	E k	Eca	ECL	EO2	ECO2	EPH	E Na	E k	Eca	ECL
EC1	-1660	772	736	498	1049	1156	1472	±3.5	±3.5	±3.5	±3.5	±3.5	±3.5	±3.5
EC2	-512	996	1278	729	693	982	1156	±3.5	±3.5	±3.5	±3.5	±3.5	±3.5	±3.5

DIFFERENT SLOPE FOR INSTRUMENT'S PARAMETER

Parameter	Slope	Slope Limit
PO2	128	75-230
PCO2	86	50-110
PH	96	86-110
Na ⁺	97	66-110
K ⁺	93	75-110
Ca ⁺⁺	88	66-110
Cl ⁻	89	66-110

QUALITY CHECK USING BIO-RAD

Parameter	Level-2	Range
PO2	109	97-117
PCO2	43	38-48
PH	7.418	7.39-7.45
Na ⁺	136	130-140
K ⁺	4.45	3.9-4.9
Ca ⁺⁺	1.117	1.05-1.25
Cl ⁻	99	93-103

INSTRUMENT IS CALIBRATED: YES
CHECKED INSTRUMENT WITH CONTROLS: YES
INSTRUMENT IS WORKING SATISFACTORILY: YES
NEXT CALIBRATION DUE ON: 04/04/2022

ENGINEER'S SIGNATURE



V. RAJESHWARI

CUSTOMER'S NAME & SIGNATURE

Abirami Kidney Care Pvt Ltd

QUALITY CONTROL Level 1 Art.-No.: 50 6 20 41 / 2.0 ml ampoule Lot-No.: 200021 Exp.-Date: 07.2022

Expected Ranges Chart

Analyzer	pH			pCO ₂ mmHg			pO ₂ mmHg			Na ⁺ mmol/L			K ⁺ mmol/L			Ca ⁺⁺ mmol/L			Cl ⁻ mmol/L			Glucose mg/dL (mmol/L)			Lactate mg/dL (mmol/L)					
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
ESCHWEILER combiline BGA	7,800	7,170	7,930	88	80	78	89	89	79																278	257	301	47,0	39,5	55,0
ESCHWEILER combiline BGA+E	7,195	7,165	7,225	88	80	78	89	89	79	120	115	125	1,98	1,45	2,45	1,44	1,29	1,59	81	76	86	0,53	0,43	0,63	(16,5)	(14,3)	(16,7)	(5,2)	(4,3)	(6,1)
ESCHWEILER modular pro	7,195	7,165	7,225	88	80	78	89	89	79	120	115	125	1,98	1,45	2,45	1,44	1,29	1,59	81	76	86	0,53	0,43	0,63	(16,5)	(14,3)	(16,7)	(5,2)	(4,3)	(6,1)
ESCHWEILER COMBISYS II	7,195	7,165	7,225	88	80	78	89	89	79	120	115	125	1,98	1,45	2,45	1,44	1,29	1,59	81	76	86	0,53	0,43	0,63						
ESCHWEILER ECOSYS II	7,200	7,170	7,930	88	80	78	89	89	79																					
ESCHWEILER ECOLYTE	7,195	7,165	7,225							120	115	125	1,98	1,45	2,45	1,44	1,29	1,59	81	76	86	0,53	0,43	0,63						

QUALITY CONTROL Level 2 Art.-No.: 50 6 20 51 / 2.0 ml ampoule Lot-No.: 200022 Exp.-Date: 07.2022

Expected Ranges Chart

Analyzer	pH			pCO ₂ mmHg			pO ₂ mmHg			Na ⁺ mmol/L			K ⁺ mmol/L			Ca ⁺⁺ mmol/L			Cl ⁻ mmol/L			Glucose mg/dL (mmol/L)			Lactate mg/dL (mmol/L)					
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
ESCHWEILER combiline BGA	7,388	7,358	7,415	43	37	49	112	102	122																162	138	166	26,2	19,0	33,4
ESCHWEILER combiline BGA+E	7,380	7,350	7,410	43	37	49	112	102	122	139	134	144	4,00	3,50	4,50	1,07	0,97	1,17	100	95	105	0,95	0,85	1,05	(8,4)	(7,6)	(9,2)	(2,9)	(2,1)	(3,7)
ESCHWEILER modular pro	7,380	7,350	7,410	43	37	49	112	102	122	139	134	144	4,00	3,50	4,50	1,07	0,97	1,17	100	95	105	0,95	0,85	1,05	(8,4)	(7,6)	(9,2)	(2,9)	(2,1)	(3,7)
ESCHWEILER COMBISYS II	7,380	7,350	7,410	43	37	49	112	102	122	139	134	144	4,00	3,50	4,50	1,07	0,97	1,17	100	95	105	0,95	0,85	1,05						
ESCHWEILER ECOSYS II	7,385	7,355	7,415	43	37	49	112	102	122																					
ESCHWEILER ECOLYTE	7,380	7,350	7,410							139	134	144	4,00	3,50	4,50	1,07	0,97	1,17	100	95	105	0,95	0,85	1,05						

QUALITY CONTROL Level 3 Art.-No.: 50 6 20 61 / 2.0 ml ampoule Lot-No.: 200023 Exp.-Date: 07.2022

Expected Ranges Chart

Analyzer	pH			pCO ₂ mmHg			pO ₂ mmHg			Na ⁺ mmol/L			K ⁺ mmol/L			Ca ⁺⁺ mmol/L			Cl ⁻ mmol/L			Li ⁺ mmol/L			Glucose mg/dL (mmol/L)			Lactate mg/dL (mmol/L)					
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
ESCHWEILER combiline BGA	7,600	7,570	7,630	25	21	29	174	164	184																			68	61	74	7,4	4,7	10,1
ESCHWEILER combiline BGA+E	7,590	7,560	7,620	25	21	29	174	164	184	158	153	163	6,90	6,40	7,40	0,54	0,44	0,64	121	116	126	2,35	2,10	2,60	(3,8)	(3,5)	(4,1)	(0,8)	(0,5)	(1,1)			
ESCHWEILER modular pro	7,590	7,560	7,620	25	21	29	174	164	184	158	153	163	6,90	6,40	7,40	0,54	0,44	0,64	121	116	126	2,35	2,10	2,60	(3,8)	(3,5)	(4,1)	(0,8)	(0,5)	(1,1)			
ESCHWEILER COMBISYS II	7,600	7,560	7,620	25	21	29	174	164	184	158	153	163	6,90	6,40	7,40	0,54	0,44	0,64	121	116	126	2,35	2,10	2,60									
ESCHWEILER ECOSYS II	7,600	7,570	7,630	25	21	29	174	164	184																								
ESCHWEILER ECOLYTE	7,590	7,560	7,620							158	153	163	6,90	6,40	7,40	0,54	0,44	0,64	121	116	126	2,35	2,10	2,60									