

CALIBRATION CERTIFICATE

Certificate No: 4409

Customer : CPC Medical Laboratory
Sreedevi Buildings,
Mavoor Road,
Calicut, Kerala
Date Calibrated : 15/01/2021
Working Temperatures : 25 ± 1° C
Due Date : 14/01/2022
Instrument : Electrolyte Analyzer
Serial No : KJ18C19030007
Model : AFT-800E
Manufacturers : MEIZHOU CORNLEY© HI-TECH CO., LTD.

Golden Harvest Industries is an organization dealing in MEIZHOU CORNLEY© HI-TECH CO., LTD. Electrolyte Analyzers. It has a Technically Qualified Technical Team to ensure trouble free operation. The Described instrument has been checked and calibrated under the ambient conditions stated above.

Power Supply			
UPS Supply	Expected reading	Measured reading	Remarks
Phase to Neutral	230 ± 10 VAC	230 VAC	Within Limits
Phase to Earth	230 ± 10 VAC	230 VAC	
Neutral to Earth	0 - 5 VAC	0 VAC	

Parameter	mV Range	Cal A	Cal B	Remarks
Sodium [Na+]	45-140 mV	61.4 mV	76.4 mV	Within Limits
Potassium [K+]	45-120 mV	53.0 mV	46.7 mV	
Chloride [Cl-]	50-120 mV	108 mV	112.0 mV	

Parameter	Cal B - Cal A	Measured Voltage	Remarks
Sodium [Na+]	12.0 ~ 21.0 mV	15 mV	Within Limits
Potassium [K+]	-4.2 ~ -7.3 mV	-6.3 mV	
Chloride [Cl-]	5.4 ~ 10.8 mV	4.0 mV	

Sample Sensor	Without Liquid mV	Measured reading	Resistance Range	Resistance
Front Sensor	1.70 ± 0.1 V	1.70 V	10 ~ 230	24
Back Sensor	1.70 ± 0.1 V	1.70 V	10 ~ 230	79

Sample Sensor	With Liquid mV	Measured reading	Range
Front Sensor	≤ 1.0 V	0.8 V	Within Limits
Back Sensor	≤ 1.0 V	0.7 V	

	With Liquid mV	Measured reading	Range
5 V	5.0 V	4.75 ~ 5.25 V	Within Limits
12 V	11.98 V	11.40 ~ 12.60 V	
-12 V	-12.01 V	-11.40 ~ 12.60 V	
24 V	24.40 V	22.80 ~ 25.20 V	
3.3 V	3.3 V	3.2 ~ 3.4 V	

Test	Status	Remark
System Initialization	Normal	Nil
Display	Normal	Nil
Fluid Flow	Normal	Nil
Printer Check	Normal	Nil

This Instrument and the above measuring parameters are calibrated as per Manufacturer Guidance. The estimated uncertainty to be associated with the results is at a confidence level of approximately 99%.

REMARKS/DEVIATIONS IF ANY:


1. The recalibration interval should be determined based on the user's requirements.
2. The user should determine the stability of the instrument for its intended use.
3. The results stated in this certificate relate only to the instrument calibrated.

Calibrated By:

Jithin Raj 
Sr. Engineer - Technical Support



Verified & Certified By:

Vinoth Kumar. S 
Zonal Manager - Technical Support