

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

INSTALLATION & OPERATIONAL QUALIFICATION DOCUMENTS

Model : AFT-800 E Electrolyte Analyzer
Manufacturer : Meizhou Cornley Hi-Tech Co., Ltd.
Serial No : KJ-18C19030007
Installation Date : 15.06.2019

Installation / Validation Report

CORNLEY – AFT-800 Electrolyte Analyzer

- IQ/ OQ / Documents

Customer Address: Calicut Pathology Centre(CPC) Calicut
Sreedevi Buildings, Mavoor road,
Calicut-673004

Contact Person: Mr.Mohanan.,

Telephone No: 984751747

Serial No

KJ-18C19030007

Installation date: 15.06.2019

Operational Qualification

- | | | |
|--|---|--------|
| <input checked="" type="checkbox"/> Switch ON the Analyzer, Check the initialising process | : | Normal |
| <input checked="" type="checkbox"/> Cal A Priming status | : | Normal |
| <input checked="" type="checkbox"/> Cal B Priming status | : | Normal |
| <input checked="" type="checkbox"/> 2 Point Calibration status | : | Normal |
| <input checked="" type="checkbox"/> Flow Path Status | : | Normal |
| <input checked="" type="checkbox"/> Aspiration Status | : | Normal |
| <input checked="" type="checkbox"/> Checked All Electrodes Millivolts and Performance | : | |

Tests/Comments (if any):

The instrument is performing in the prescribed standards; validation of the same has been performed.

This is to certify that the instrument can be used for operational analysis.

The system Described meets all the criteria outlined in this installation qualification Documents. All items have been checked & Installation has been completed.

The System is ready for Performing Performance Qualification.

Performer: Mr.Jithin Raj

Date : 29.11.2021

Reviewer: Mr.N.Ganesan

Installation / Validation Report

CORNLEY –AFT-800 E Electrolyte Analyzer		- IQ/ OQ / Documents
Customer Address: Calicut Pathology Centre(CPC) Calicut Sreedevi Buildings, Mavoor road. Calicut-673004		Contact Person: Mr.Mohanan., Telephone No: 984761747
Serial No	KJ-18C19030007	Installation date: 15.06.2019

Installation Qualification

Transport damage

Package damaged: Yes No
 Parts damaged: Yes No

If yes, please specify:

Initial check

Missing Parts (if any) (Check against packing list)	Number	Part description
<input type="checkbox"/> Yes → Please specify parts	_____	_____
<input checked="" type="checkbox"/> No	_____	_____

* Please return parts, including a malfunction report.

Line Voltage / Main Supply: 210 – 230V: 231V

Earthing Voltage (0-5V): 0V

Room Air conditioned: Yes No

Stabiliser / UPS: **ONLINE UPS** Rating : **1 KVA**

(We recommend connecting AFT-800E to UPS of 0.5 KVA)

The system Described meets all the criteria outlined in this installation qualification Documents. All items have been checked & Installation has been completed.

The System is ready for Performing Operational Qualification.

Performer: Mr.Jithin Raj
Date : 29.11.2021

Reviewer: Mr.N.Ganesan

Certificate

This is to certify that the following instrument have been validated as per the manufacturer's protocol & is found to be working satisfactorily.

Instrument Name : Electrolyte Analyzer

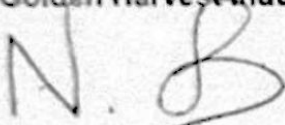
Model : AFT-800 E

Serial No : KJ-18C19030007

Manufacturer : Meizhou Cornley Hi-Tech Co., Ltd.

This IQ & OQ Certificate valid from: 15.06.2019 to 14.06.2020

For Golden Harvest Industries



Zonal Manager - Technical Support