



INFINITY BIO SYSTEMS

#5-35-323, SAI BABA NAGAR, Kukatpally, Hyderabad-500 072

Email: infinitybs@gmail.com Phone: +91-90006 60003, 040- 400 24 365

ELITE BIO CHEM CALIBRATION CERTIFICATE

CALIBRATION PROTOCOL

The purpose of this calibration protocol is to define the qualifications and the acceptance standard in order to verify the normal operation and function of the Elite Bio Chem fully auto chemistry analyzer in the laboratory. Trained knowledgeable personnel from Infinity Bio Systems along with the department personnel will perform and review analyzer calibration protocol as mentioned by the manufacturer. The satisfactory outcome of this procedure assures that the system functions according to the parameters.

EQUIPMENT INFORMATION:-

| | | |
|-------------------------|---|---|
| Instrument Name | : | Elite Bio Chem Fully Auto Bio Chemistry Analyser |
| Model/Type | : | Elite Bio Chem |
| Serial No | : | AES2K2KT12061A |
| Installation Date | : | 18.08.2023 |
| Calibration Done On | : | 17.08.2024 |
| Next Calibration Due On | : | 16.08.2025 |

Laboratory/Hospital Name : UNITED PATH LABS Pvt Limited
Vanasthalipuram , Hyderabad

Supported By : INFINITY BIO SYSTEMS,
Kukatpally, Hyderabad.

CALIBRATION AND MAINTAINANCE PROCEDURES

MAINTAINANCE:

- Instrument was checked for cleanliness.
- Cuvettes were manually cleaned and performed wash cells(All) operation in maintenance.
- Wash unit working was checked whether it is dispensing and aspirating EBC wash and water in the perfect sequence manually.
- Cleaned sample reagent and mixing probes manually with alcohol and then with distilled water also performed probe wash(Detergent) in the maintenance.
- Performed sample reagent and mixer probes horizontal and vertical movement.
- Air Purge was performed to remove any air bubbles present in the syringes.
- Instrument mechanism operation check was done and found instrument working in satisfied operation conditions.

CALIBRATION:

- Input supply and lamp voltage for the machine was found adequate using the multimeter.
- Cell blank values are measured in the maintenance screen and reports are attached.
- Cuvette temperature readings are indicated in the Software
- Reagent compartments cooling temperature is indicated in LED display behind the machine.
- Detectors performance were checked by checking the temperature control voltage.
- All parameters Calibration and both level Quality control was done and results found satisfactory



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This is to certify that this Analyzer has been inspected and calibrated for following parameters

| TEST PARAMETER | TARGET VALUE & RANGE | OBTAINED VALUE |
|---------------------------------------|----------------------------------|----------------|
| INPUT VOLTAGE | 230-240V AC | 234V AC |
| CELL BLANK VAULE | 20000- 60000 for all wavelengths | |
| Cuvette TEMP | 37 degree +/- 0.3 | 37.1 degree |
| REAGENT COMPART- MENTCOOLING CHECK | 4 to 14 degrees centigrade | 8.2 degree |
| TEMP CONTROL UNIT | 24 +/- 0.2V | |
| 6V LAMP SUPPLY | 6 +/- 0.2V | |
| 24V MAIN BOARD SUPPLY | 24 +/- 0.3V | |

The results are obtained as per specifications & tolerance ranges. Routine chemistry parameters precision study was carried out. The CV's obtained are in acceptable range (< 3.0% CV). Calibrations of routine tests were also done & the results of controls & samples found satisfactory.

Calibration Reports:-

The controls results are obtained as per specifications & tolerance ranges. Verified the calibration & controls results according to the specific limits and considered the satisfactory results herewith certificate that Elite Bio Chem Fully Auto Bio Chemistry Analyzer operates correctly according to the instrument specifications.

Calibration details of Standard used : MultimeterMake :
Fluke
Serial No : **40640066WS**
Traceability Certificate : HI Tech calibration Services
Certificate # : HT\CC\201107-16\001 & CR\PCAL\51278

Report Sign Off:

Calibration Done By: M.Neelakanta

Designation: Service Manager

Date & Sign: 18.08.2023



Note: Supportive date to be attached along with this certificate.