

**CERTIFICATE OF CALIBRATION**

Customer: Alpha Clinical Laboratory

Date of Issue: 29.09.2022

Certificate no: A2217

Place of Issue: Coimbatore

Accurex Biomedical Pvt Ltd. here by certifies that the below specified Analyzer has been calibrated in accordance with applicable Accurex calibration procedures. The results acquired through the calibration were found to be within Mindray's current specification limits at the measurement points recorded.

**EQUIPMENT DESCRIPTION**

Manufacturer: Mindray India Pvt Ltd

Model: AUTO 180

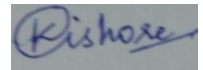
Analyzer: Fully Automated Biochemistry

S.no: 151356002

Service Provider: Accurex Biomedical Pvt. Ltd

Tests performed by: R.K.Kishore

The Fully Automated Biochemistry Analyzer has been installed successfully and all the biochemistry parameters have been tested with Standard and Quality controls. The results of all the parameters were found within the specified limits of QC manufacturers (Accurex and Biorad).



Authorized by: \_\_\_\_\_  
Deputy ASM



**Electrical & Functional check: Found OK**

- Tested the AC parameters where the analyzer is connected and the voltages were in acceptable range. The values are given below. Acceptable AC Voltage is from “215V – 240V” and acceptable earthing voltage is from “0V – 3V”.

Voltage = 236V  
 Neutral = 238V  
 Earthing = 2V

- Tested the DC parameters of the analyzer where the Switch Mode Power Supply of the instrument distributes the power to all the other spare parts of the analyzer and the range is tolerable which is given below.

Lamp gain = 6V  
 Pump motors = 12V  
 Sampling Arm = 24V  
 Main Board = 12V

**Optical Reading Test: Tested OK**

PREVIOUS DATA			CURRENT DATA		
WAVELENGTH	mVolt	Efficiency(%)	WAVELENGTH	mVolt	Efficiency(%)
340	1480.4	100	340	1502.5	100
405	1448.2	97	405	1548.6	100
505	1469.4	96	505	1452.2	100
546	1455.2	99	546	1415.8	101
578	1477.7	100	578	1444.6	101
600	1481.3	99	600	1489.7	100
650	1466.4	100	650	1548.4	100
700	1498.9	100	700	1514.1	100



**Parameters Calibration Check: Found OK**

All the parameters have to be calibrated for setting its own particular 'Factor'. The range of the factor for every parameter has been specified by the manufacturer of the reagents.

- **Issue:** SGOT and Creatinine factors' have gone beyond the acceptable range.
- **Solution:** Replaced the reagents as it looked contaminated. Re calibrated both the tests and brought back their factors to the acceptable levels.

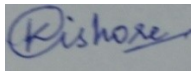
**Quality Control Check: Tested OK**

QC check has to be done regularly for ensuring the proper quality of the machine as well as the reagents. QC Test done with Biorad's Lypocheck Assay Chemistry Control (LOT No: 26490). Results are in range and most are near to mean.

**Declaration:**

All the checks and calibration has been done and the system is being used under the recommended conditions.

For Accurex Biomedical Pvt. Ltd



Deputy ASM