

# THE PIPETEMANN

NABL ACCREDITED CALIBRATION LABORATORY  
ADDING ACCURACY TO YOUR EQUIPMENT

MASS - VOLUME - THERMAL - SPEED - PRESSURE - TIMER - ELECTRO TECHNICAL



CERT. NO. CC - 2317

## CALIBRATION CERTIFICATE

CUSTOMER ADDRESS : M/s. ALPHA CLINICAL LABORATORY & ECG CENTRE, NO:17/1,BAZAAR STREET, MUTHAPUDUPET, I A F, AVADI, CHENNAI 600055 Phone No.: 9941500551	
UNIQUE LAB REPORT NUMBER : ULR-CC231720000003361F	DISCIPLINE : MECHANICAL CALIBRATION
NAME OF EQUIPMENT : MICROPIPETTE	PARAMETER : VOLUME
CERTIFICATE NO : TPMCC201043868	DATE OF ISSUE : 10-10-2020
RECEIPT NO : 9426	TEMPERATURE : 24.5 °C
RECEIPT DATE : 10-10-2020	HUMIDITY : 54 %
JOB CARD NO : TPM856102042291	AIR PRESSURE : 959 hpa
JOB CARD DATE : 10-10-2020	MEDIUM OF WEIGHING : GRADE III WATER
BRAND : LABMATE	DENSITY OF MEDIUM : APPROXIMATELY 1
RANGE : 100-1000 µl	DENSITY CORRECTION FACTOR [Z] : 1.0037 µl/mg
SERIAL NO : OH518256	CALIBRATION METHOD : ISO 8655:2002 PART - 6
TIPS USED : 1000 µl	WEIGHING BALANCE : SEMI MICRO BALANCE
SCOPE OF ACCREDITATION : VOLUME - MICROPIPETTE ( 1 µl - 10000 µl )	

## DETAILS OF MASTER EQUIPMENTS USED FOR CALIBRATION

MASTER EQUIPMENT	: SHIMADZU
SL.NO	: D450020184
RESOLUTION	: 0.00001g upto 82g & above is 0.0001g
CALIBRATED BY	: THE PIPETEMANN (MASS), COIMBATORE
CERTIFICATE NUMBER	: TPMCCM20020237
CALIBRATION VALIDITY	: 07-02-2021
TRACEABILITY	: NATIONAL STANDARDS



Calbiochem, Diphtheria, Q, Mantoux

Top shelf containing various medical supplies, including boxes of ACCUREX and several bottles in a white tray.

Second shelf with boxes of ACCUREX, SYPHICHECK-WB, and other diagnostic kits.

Third shelf featuring a tray of blue-capped test tubes and boxes of GP Getein diagnostic kits.

Top door compartment containing a tray of blue-capped test tubes.

Second door compartment containing a tray of white packets or test strips.

Third door compartment containing a tray of various bottles and containers.

Bottom door compartment containing a bottle of Fournier's solution and other small containers.

Bottom door compartment containing a yellow-lidded container.



## Calibration Certificate

Calibration certificate number: 3421 A	ULR (Unique Lab Report) number: CC26902000003421F	Page 01 of 02
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Customer:

Through: Thermo Fisher Scientific India Pvt. Ltd., Pipette Division, Nashik.

**Calibration details:**

Calibration and Certificate issue date: 26/10/20 Lab work order number: 20/10-01 Calibrated by: Sagar\_Gosavi  
Calibration location: Thermo Fisher Scientific India Pvt. Ltd. – Calibration Laboratory, D-96, MIDC Satpur, Nashik – 422 007.

Next calibration date (as per Customer's request): 26/10/21

**Device information:**

Description: Finnpipette F3 10-100µl	Number of channels: 1
Catalogue number: 4640040	Serial number: RW10755
Manufacturer: Thermo Fisher Scientific	Tip used: Finntip 250 Universal
	Customer's asset ID: --

**Environmental condition:**

Air Temperature: 26.12 °C	Air Pressure: 942.1 hPa
Water Temperature: 26.05 °C	Relative Humidity (%RH): 59.4 %
Z correction factor (µl/mg): 1.0042	Y correction factor ((1/K)xK): 1.00040

**Master equipment details (Traceable to National and International standards):**

Equipment	Lab ID	Serial number	Model number	Calibration date	Calibration due date	Calibrated by with NABL certificate number
Micro Balance (Mettler Toledo)	QP-01	B115129039	XP26PC	13/11/19	12/11/20	Mettler Toledo, Mumbai (CC-2523)
Universal measuring instrument with sensors for environmental parameters (Almemo)	QP-10	H19070544	2590-4AS	07/10/20	06/10/21	Autocal, Nashik (CC-2052)

**Measurement procedure:**

The pipette calibration work instruction (LD-03/WI-01) of Thermo Fisher calibration laboratory follows the guidelines of the ISO 8655-6 standard. The device is calibrated for delivery (Ex) of the test liquid. The used test liquid is distilled water fulfilling ISO 3696 requirements. Calculations are done using the following formula:  $V(\mu l) = m(mg) \times Z(\mu l/mg) \times Y((1/K) \times K)$ . The mass / volume conversion is done using the Z factor (Annex A in EN ISO 8655-6). The obtained results are converted to correspond the reference temperature of 27°C using the Y factor. With variable volume devices nominal volume, 50 % of the nominal volume and 10% of the nominal volume or the minimum volume of the range (the higher value is used) are calibrated. With fixed volume devices, the nominal volume is calibrated. Ten measurements are performed at each calibrate volume. The test device is held at the calibration laboratory for minimum of two hours to reach the temperature equilibrium. The environmental conditions of the laboratory are monitored and recorded during the calibration procedure. The stated uncertainty is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k = 2.

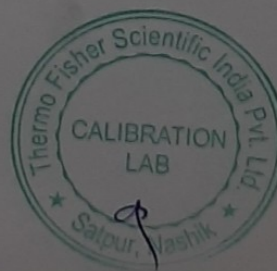
This corresponds the confidence level of 95%. The uncertainty budget is defined by lab internal procedure following the guidelines of ISO/TR 20461.

**Device conformity status (considering applied Decision rule): PASSED**

Calibration Laboratory Manager:  
(Signature and Date)

Pramod Jadhav

26/10/20  
Date





## Calibration Certificate

This Calibration certificate issued on 10-08-2020 for AT112 neo Clinical Bio-Chemistry Analyzer wide Serial No: 1910057 installed at ALPHA CLINICAL LAB, CHENNAI.

### Calibration Details

#### 01. Optical Unit Calibration :

A: Lamp Voltage Calibration : 12Dc with Digital Voltmeter

#### B. Filter Calibration

340nm: 0.0983 O.D

405nm: 0.2039 O.D

492nm: 0.2765 O.D

510nm: 0.2149 O.D

546nm: 0.2621 O.D

578nm: 0.2323 O.D

640nm: 0.1442 O.D

F8 Dark Current 4.1253 O.D

C. Zero Drift Calibration : 340nm Filter calibrated at 10 minutes with Distilled Water at Flow Cell Temperature 37 c and the Observation of the O.D is in normal range

**02. Cuvette Temperature Calibration:** 37 Degree Centigrade in Target

**03. Pump Calibration:** The Aspiration Pump calibrated with 1ml of Distill water and the value is in target      Volume Calibration : 2524

Hence , We Certify this Instrument is working Satisfactory with subsequent to Calibration of the above Parameters and the Next Calibration Due on : 09-08-2021

For Mr. R. Senthil kumar,  
South Service Manager,  
AccurexBiomedical Pvt Ltd.



## CALIBRATION CERTIFICATE

**Name of the customer:** ALPHA CLINICAL LAB  
**Instrument type:** Hematology analyzer  
**Model number:** CBC 330 **Serial number:** 2900PET2708  
**Date of Calibration:** 10-08-2020 **Valid till date:** 09-08-2021

### Power checks:

Power supply	AC 228V-50 Hz
Plug top	5 Amps
Earth voltage	1.1 Volt

### Environmental check:

Parameter	Working range	Site conditions
Room temperature	5-40°C	27°C
Humidity	10-90%	52%

### Physical check of the equipment:

Check for damage	Checked	No damage found
Visual and functional inspection	Checked	OK
No damage on internal assembly	Checked	No damage found

### System. configuration check:

Positioning of the Equipment	flat stable surface	Checked	Found OK
Adequate space around the Sphera	Checked	Checked	Found OK
Interference to other equipment	Checked	Checked	No interference

### Result

Installed the hematology analyzer satisfactorily and is ready for operational verification

for Mr. Senthil Kumar.R  
South Service Manager



Cert. No. TPMCC201043867  
Call. Date 10-10-2020  
Due Date 09-10-2021  
The PIPETEMANN  
CBE - 6  
Cert. No. CC-2317  
0422 - 2568182  
91 98430 59043

OE504386



Cert. No. TPMCC201043868  
Call. Date 10-10-2020  
Due Date 09-04-2021  
The PIPETEMANN  
CBE - 6  
Cert. No. CC-2307  
0422 - 2568182  
91 98430 59043

DH518256

## LAB MONTHLY SUMMARY



Lab Name ALPHA CLINICAL LAB AND ECG CENTRE Lab No 9009  
 Month June Year 2021  
 Constituent Group Chemistry II



Date of Result Entered : 08/06/2021

Date of Report Published : 03/07/2021

Sl.No	Analyte	Method / Principle Name	Analyzer Name	No of Participants	DV	Participants		Your Value	SDI	U
						CV	SD			
1	GLUCOSE II	GOD-POD II	Any Analyser (Automation / Semi Automation)	940	193.80	10.52	20.38	182 mg/dl	-0.58	1.33
2	UREA II	Urease UV / GLDH II	Any Analyser (Automation / Semi Automation)	580	74.92	14.27	10.69	73.3 mg/dl	-0.15	0.89
3	CREATININE II	Jaffes Kinetic-Alkaline Picrate II	Any Analyser (Automation / Semi Automation)	675	4.42	11.68	0.52	5.3 mg/dl	1.71	0.04
4	T.BILIRUBIN II	Diazonium Salt (Colorimetric) / Jendrassik II	Any Analyser (Automation / Semi Automation)	800	3.86	16.46	0.64	3.11 mg/dl	-1.18	0.04
5	T-PROTEIN II	Biuret - Colorimetric II	Any Analyser (Automation / Semi Automation)	729	5.51	11.11	0.61	5.4 g/dl	-0.18	0.05
6	ALBUMIN II	BCG - Colorimetric II	Any Analyser (Automation / Semi Automation)	703	3.28	10.79	0.35	3.2 g/dl	-0.23	0.03
7	URIC ACID II	Enzymatic / Uricase Colorimetric II	Any Analyser (Automation / Semi Automation)	756	5.04	22.70	1.14	5.6 mg/dl	0.49	0.08
8	CHOLESTROL II	CHOD-PAP II	Any Analyser (Automation / Semi Automation)	906	109.30	12.80	13.99	110 mg/dl	0.05	0.93
9	TRIGLYCERIDE II	GPO-PAP / Enzymatic Colorimetric / End Point II	Any Analyser (Automation / Semi Automation)	774	139.56	14.86	20.74	119 mg/dl	-0.99	1.49

SDI Range	Interpretation
Within -1.0 to +1.0	Excellent.
Between $\pm 1.0$ to $\pm 2.0$	Good.
Between $\pm 2.0$ to $\pm 3.0$	Accept with caution. Warning Signal.
Beyond $\pm 3.0$	Unacceptable performance. Action Signal.

Homogeneity and Stability of the sample is passed.

Data in CMC EQAS reports is confidential

Contact details:

Email: clinqc@cmcvellore.ac.in

Contact Number: 0416-2283102

Dr. Pamela Christudoss

CMC EQAS Co-Ordinator

Christian Medical College, Vellore


\*\*\*\*\* End of Report \*\*\*\*\*

AT-112<sup>PLUS</sup>  
Biochemistry Analyzer



**ACCUREX**



 **ACCUREX**



1 2 3 4 5 6 7 8 9 0 - .

POWER



NO



YES

K<sup>+</sup> Na<sup>+</sup> Cl<sup>-</sup> Ref




**ACCULAB**  
**ENLITE**

ATSMART



+91 91369 53174

 **ACCUREX**  
Since 1984

 **ACCUREX**

Dry Bath Incubator

Power

Ready



ACCUREX



Print Flush Mode Prime Drain

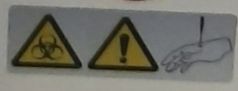
Run Standby Whole Blood/Pre-diluent

Run: █ Standby: █ Whole Blood/Pre-diluent: █

ACCULAB  
CBC 330

PULL

MICRO PRINTER





Calbiochem, Diphtheria, Q, Mantoux

Top shelf containing various medical supplies, including boxes of ACCUREX and several vials in a white tray.

Middle shelf with boxes of SYPHICHECK-WB, ACCUREX, and JAMICHECK-TROP.

Bottom shelf with boxes of GP Getein (One Step Test for D-Dimer and HbA1c) and a tray of blue-tipped vials.

Top door shelf containing a row of blue-tipped vials.

Middle door shelf containing a stack of papers or manuals.

Bottom door shelf containing various vials and containers.

Small shelf containing a bottle of FOUCHER and a small container.

Yellow storage bin at the bottom of the door.