

Calibration Certificate

This is to Certify that Biochemistry Analyzer Meril AutoQuant-200Excelus Instrument Sr. No. **AQ100360** Installed at **NerBlut Diagnostic Services-Hyderabad** has been calibrated by our engineer on **10-Jan-2024** with appropriate and sophisticated tools. Below parameter has been calibrated:

TEST ITEMS AND RESULT



Appearance	No Imbalance Probe Movement
Leakage in Water tubing or CRU	No water leakage
Ambient temp (15- 32) Degree	24.0 degree C
Lamp Check	OK
Sample Dispersing Volume	In range (0 to 30 ul)
Reagent cooling Temperature	2.8 ° C (0 to 15 Degree)
Optical Path length	0.65
Waster & Water Sensor	Working Properly
Threshold value	±34000 (≥25,000)
Valve & Motor	Working Properly
Reagent Dispensing Volume	In range (0 to 150 ul)
Power Supply and Earthing	230 Volts and Grounding less than 5 V
CV-Kinetic/End point/two Point	CV- 1.77% /2.42% /2.80%
SD-Kinetic/End point/two Point	SD- 1.15/0.39/0.69
Mean-Kinetic/End point/two Point	Mean- 97.55/14.34/24.79
Hardware Check-Functional Test	OK5415152524141112
Light Quality Check	OK
Cuvette Absorbance	OK
Cuvette Blank Value	OK >33000
Incubation temp.	37.0 ° C
Room temp.	25.0 degree C

This Calibration Certificate is Valid Up to **09-Jan-2025**.

Conclusion: All parameter are within range. The Machine is working properly.
(As per Meril terms.)

Engineer Name: **Mr. Manoj Chintala** Designation: **Service Engineer**

Engineer Sign:


10/01/2024

Stamp;

BioCAL Kit

Assayed Clinical Chemistry Calibrator

REF	Pack Size	R1 BioCal	R2 BioCal
CALCNC-01	4 x 3ml	4 x 3ml	1 x 12ml

INTENDED USE

BioCal is intended for use in the calibration of quantitative methods on Meril automated clinical chemistry analyzers.

SUMMARY

BioCal is a lyophilized calibrator based on human serum with added concentrations and activities.

RECONSTITUTION

Carefully open one vial, avoiding the loss of lyophilizate. Using a volumetric pipette, reconstitute each vial with 3.0 ml of R2 BioCAL (Reconstitution Buffer) at +15 °C to +25 °C. Replace the stopper and allow the control to stand for 20 minutes, swirling occasionally. Before sampling, gently swirl the vial several times to ensure homogeneity. Avoid formation of foam. Do not shake.

CALIBRATOR VALUES

The calibrator values were determined under strictly standardized conditions on Meril automated clinical chemistry analyzers using Meril AutoQuant/ AriQuant reagents and master calibrator. The target value is the mean of the values obtained.

STORAGE & STABILITY

Stability: up to expiration date on label when stored unopened at 2-8 °C.

Stability once reconstituted: 5 days when stored tightly at 2-8 °C.

After reconstitution & frozen once: all analytes stable for 30 days at -20 °C, except bilirubin will be stable for 8 hours at 2 - 8 °C & 15 days at -20 °C stored protected from light. Store control tightly capped and protected from light when not in use.

Recovery of the BioCal calibrator is within \pm 5% of initial value.

MATERIALS REQUIRED BUT NOT PROVIDED

Volumetric Pipette, Meril AutoQuant/AriQuant system pack reagents, Meril AutoQuant autoanalyzer and General laboratory equipment.

WARNINGS AND PRECAUTIONS

1. All human material should be considered potentially infectious and handled appropriately by entitled and professionally educated person.
2. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory.
3. Perform the test according to the general "Good Laboratory Practice" (GLP) guidelines.

CALIBRATION

Use BioCal calibrator as specified in the respective pack inserts of Meril AutoQuant/ AriQuant system pack reagents.

LIMITATIONS

This product should not be used past the expiration date. If there is evidence of microbial contamination or excessive turbidity in the reconstituted calibrator, discard the vial.

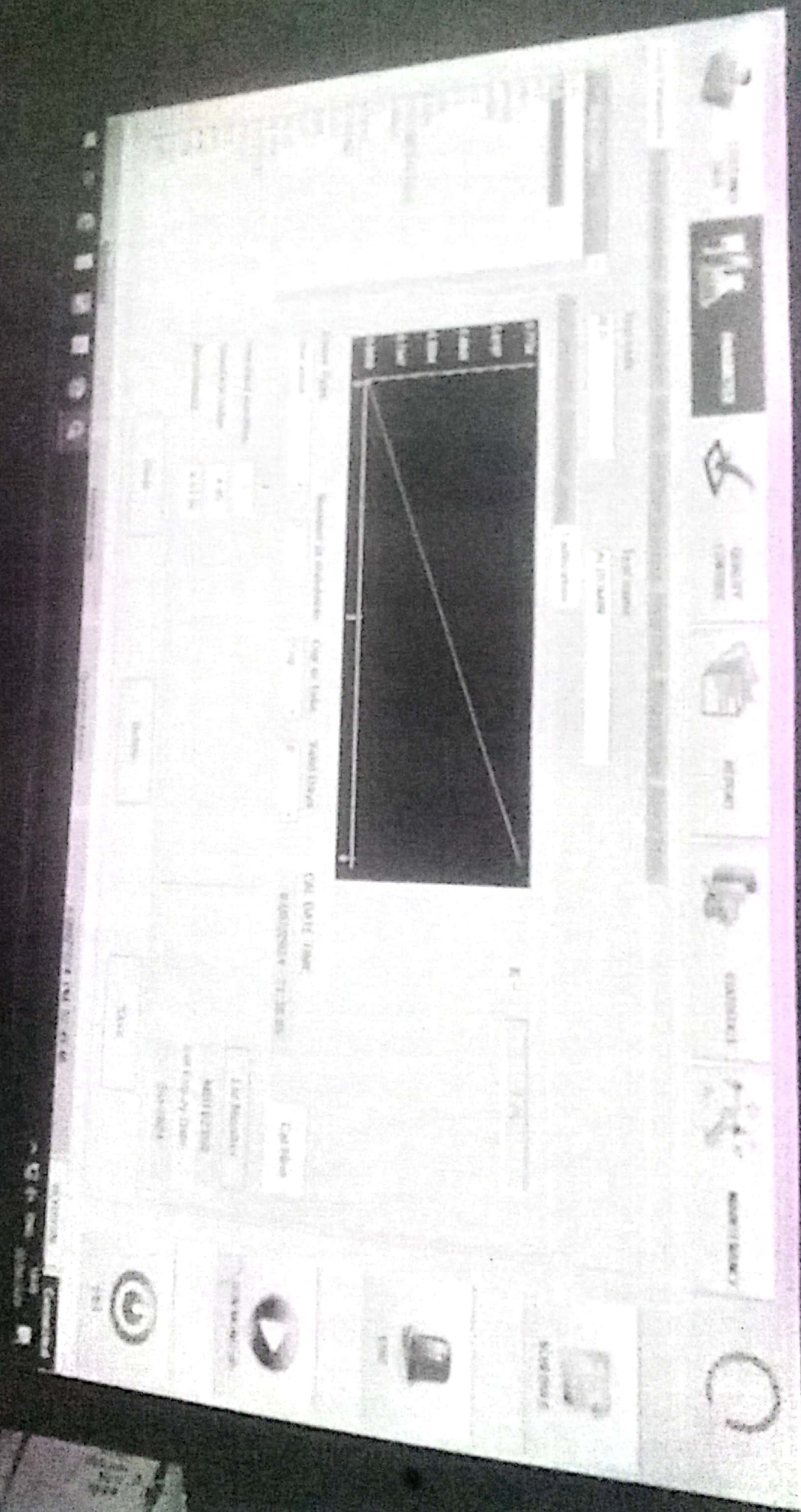
Different lot numbers of this calibrator should not be interchanged, as the values assigned vary from lot to lot.

WASTE DISPOSAL

This product is made to be used in professional laboratories. Please consult local regulations for correct waste disposal

REFERENCES

1. NCCLS. *Clinical and Laboratory Standards EP 25A* Volume 29 No. 20; Approved Guideline.
2. NCCLS. *Clinical Laboratory Safety*, Approved Guideline - Second Edition.
3. Data on file: Meril Diagnostics.



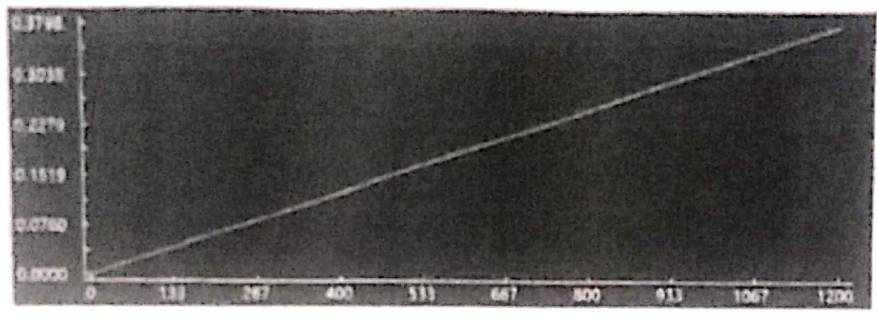
lenovo

Test Parameters: [Test Parameters] [Test Results] [Test Results Summary] [Test Results History] [Test Results Detail] [Test Results Print]

- Test code
- Test name
- Test parameters
- Test results
- Test results summary
- Test results history
- Test results detail
- Test results print
- Test results export
- Test results import
- Test results delete
- Test results refresh
- Test results search
- Test results filter
- Test results sort
- Test results page
- Test results print
- Test results export
- Test results import
- Test results delete
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- Test results search
- Test results filter
- Test results sort
- Test results page

Test code: ALP
 Test name: ALKALINE PHOSPHATASE

Test parameters
Test results
Calibration



K = 0158.00

Curve Type: One point
 Number of standards: 1
 Cup or Tube: Cup
 Valid Days: 0
 CAL DATE TIME: 03/02/2024 - 21:36:25

Standard position: 1
 Standard value: 370.00
 Absorbance: 0.1171

Cal Hist
 Lot Number: MB102308
 Lot Expiry Date: Oct-2024

Test code

CUU A1

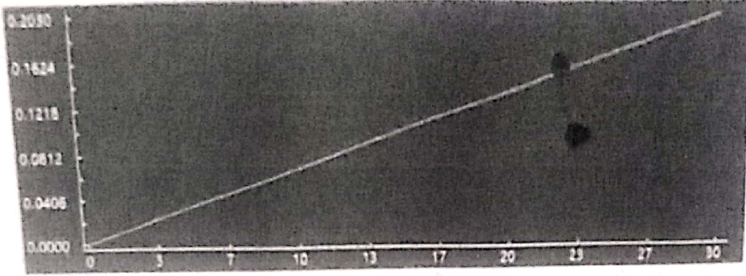
Test name

CUU ATININI

Standard parameter

Standard value

Calibration



K = 147.29

Curve Type

One point

Number of standards

1

Cup or Tube

Cup

Valid Days

0

CAL DATE TIME

03/02/2024 - 21:38:33

Cal Hist

Standard position

1

Standard value

4.82

Absorbance

0.0272

Lot Number

MB10730B

Lot Expiry Date

Oct 2024

Clear

Delete

Save

AutoQuant2

Administrator

Operator.Admin

03/02/2024 PM 02:49:54

VISION

Can

14:00

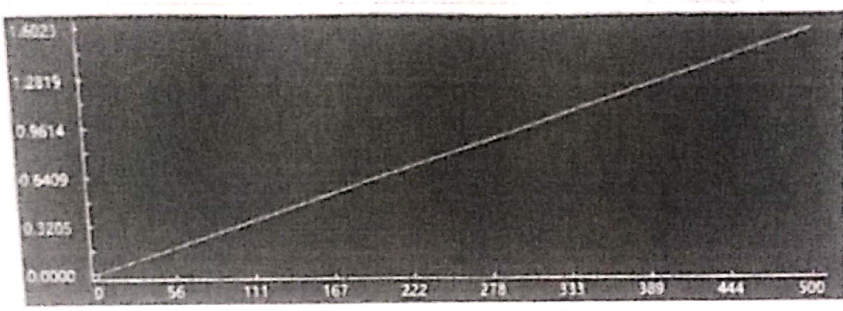
03/02/2024

Test Parameter: [General Information](#) / [Calculated test](#) / [Profile](#) / [Test Run Sequence](#) / [Carry Over](#) / [Reagent Setup](#) / [Reflex Tests](#)

- Test name
- ALA
- ALB
- ALP
- AMYL
- ASPART
- BUN
- CA
- CEA
- CHOL
- CHOL/ESTERASE
- CKMB
- CK
- CK-MB
- CK-MB/TNZ
- CRP
- ESR
- GGT
- GLUC**
- HA-DIFF
- HA-DIFF/SP
- HA-DIFF/SP
- HGB
- HCT
- HDL
- HDL-C
- HDL-C/SP

Test code: Test name:

[Basic parameter](#) / [Reference range](#) / [Calibration](#)



K =

Curve Type	Number of standards	Cup or Tube	Valid Days	CAL DATE-TIME	Cal Hist
One point	1	Cup	0	03/02/2024 - 21:43:35	<input type="button" value="Cal Hist"/>
Standard position	1				<input type="button" value="Lot Number"/>
Standard value	192.00				MB102300
Absorbance	0.6153				Lot Expiry Date
					Oct 2024

CUSTOMER DATA

PARAMETER

QUALITY CONTROL

REPORT

STATISTICS

MAINTENANCE

Test Parameter

Test code

SG.01

Test name

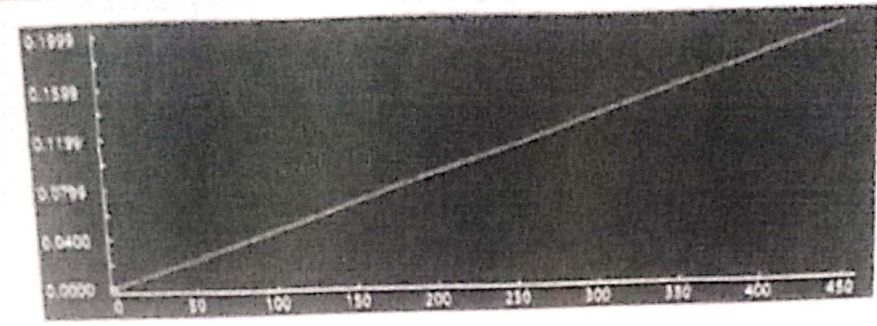
SG.01

Test name

- 1.000
- 1.001
- 1.002
- 1.003
- 1.004
- 1.005
- 1.006
- 1.007
- 1.008
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- 1.199
- 1.200

Home Parameter

Calibration



K = 2751.41

Curve type

One point

Number of standards

1

Cup or tube

Cup

Valid Days

0

CAL DATE-TIME

03/02/2024 21:42:41

Cal Hist

Standard position

1

Standard value

170.00

Absorbance

0.0511

Clear

Delete

Save

Lot Number

M01102700

Lot Expiry Date

Oct 2024

AutoQuant?

Administrator

Operator Admin

03/02/2024 PM 02:50:08

VEICRON

Conne

14:30
31/08/2024



OPERATOR



PARAMETER



QUALITY CONTROL



REPORT



STATISTICS



MARKET NAME

Test Name

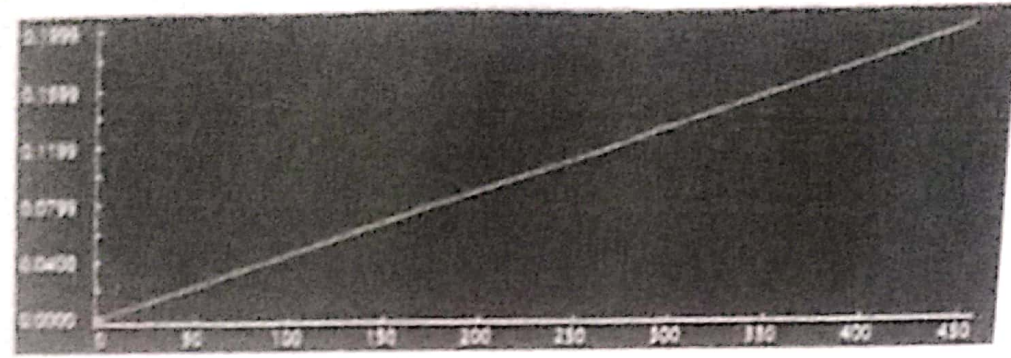
Test code

1101

Test name

NGOT

Calibration



K =

2761.41

- 1. 100.00
- 2. 100.00
- 3. 100.00
- 4. 100.00
- 5. 100.00
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- 49. 100.00
- 50. 100.00

Curve Type	Number of standards	Cup or Tube	Valid Days	CAL DATE TIME	Cal Hist
One point	1	Cup	0	03/02/2024 - 21:42:41	
Standard position	1				Lot Number
Standard value	170.00				M1102180
Absorbance	0.0511				Lot Expiry Date
					Oct 2024
Clear		Delete		Save	



CONTAINER DATA

PARAMETER

CONTROL

Test Parameters

Test code

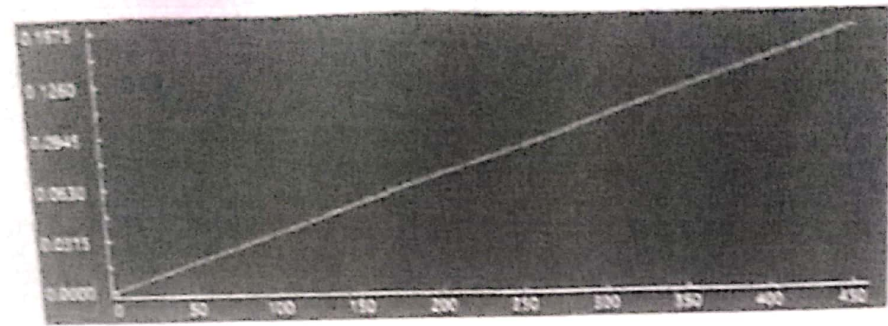
SGP1

Test name

SGP1

Single parameter, Druggable sample

Calibration



K = 2057.14

Curve Type

One point

Number of standards

1

Cup or Tube

Cup

Valid Days

0

CAL DATE-TIME

03/02/2024 - 21:37:41

Cal Hist

Standard position

1

Standard value

182.00

Absorbance

0.0357

Lot Number

ME1182308

Lot Expiry Date

Oct-2024

Clear

Delete

Save

AutoQuant2

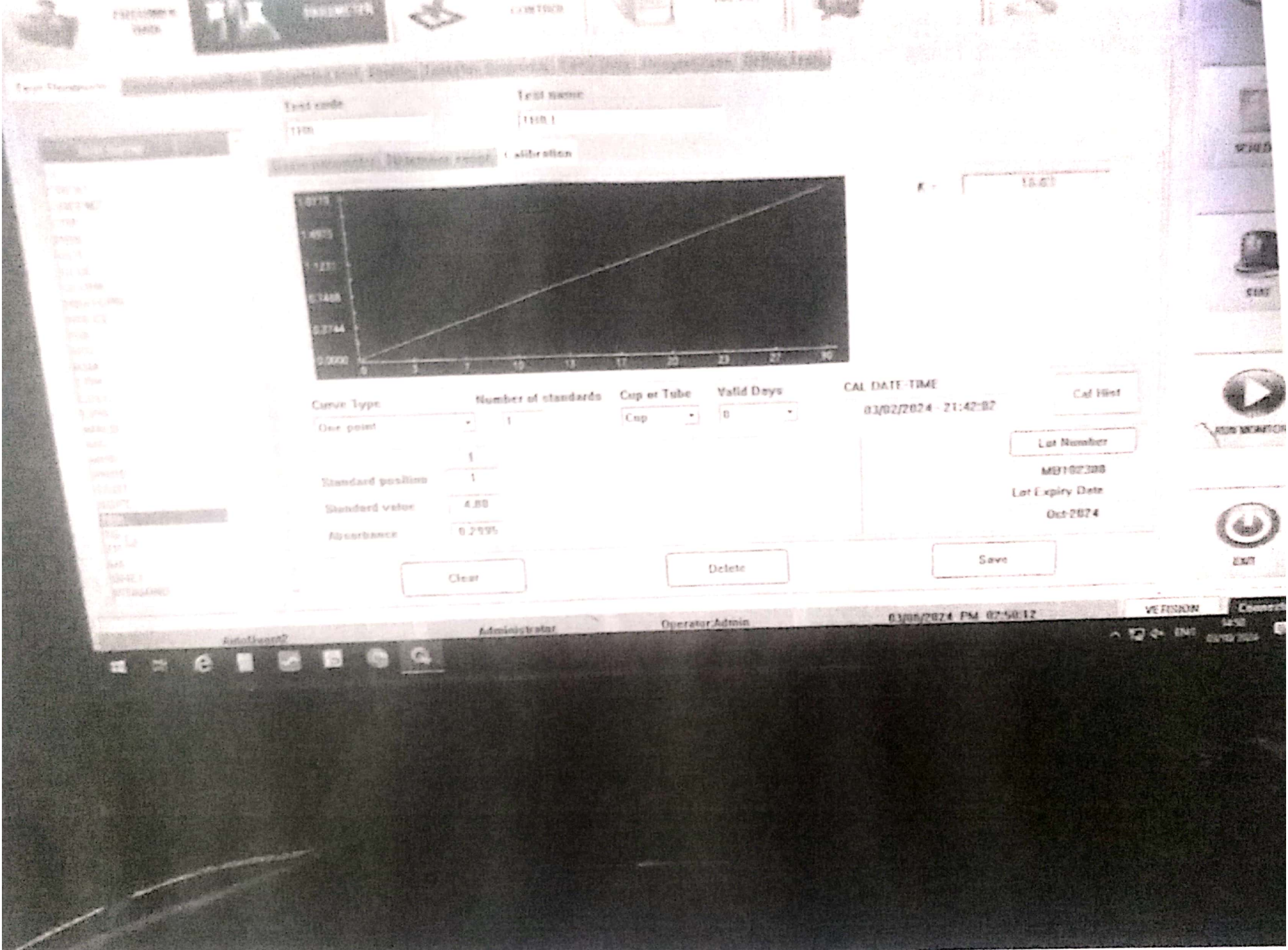
Administrator

Operator Admin

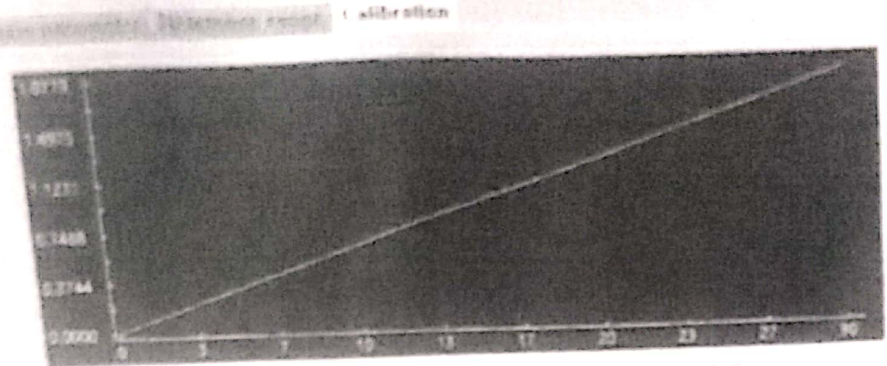
03/02/2024 PM 02:50:18

VERSION

Close



Test code: 1100
Test name: (1100)



Curve Type: One point
Number of standards: 1
Cup or Tube: Cup
Valid Days: 0
Standard position: 1
Standard value: 4.80
Absorbance: 0.2195

CAL DATE-TIME: 03/02/2024 - 21:42:07

Cal Hist
Lot Number: MB102300
Lot Expiry Date: Oct-2024

Clear Delete Save

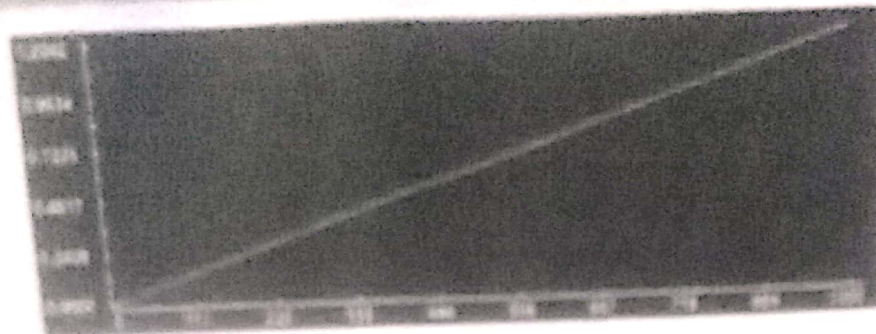
Administrator Operator:Admin 03/02/2024 PM 07:50:12 VE FISSON

Unit Converter

Test name:

Test code:

Calibration



0.7000

0.0000

0.2000

0.4000

0.6000

0.8000

1.0000

0 10 20 30 40 50 60 70 80 90 100

Check Type:

Number of standards:

Cap or Tube:

Valid Dates:

CO2 GROSS TIME:

Cal list:

Cal Number:

MDY-HH:MM:SS:

Last Empty Time:

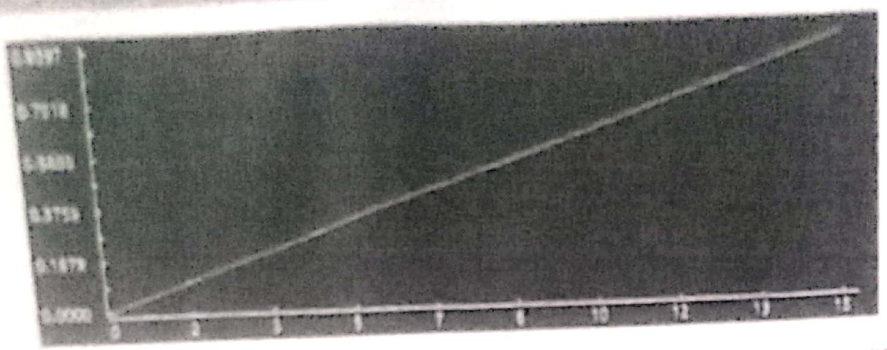
Due Date:

Clear

Done

Save

Test code:
 Test name: TOTAL PROTEIN



K = 0.0065

Curve Type: One point
Number of standards: 1
Cap on Tube: Cap
Valid Days: 0

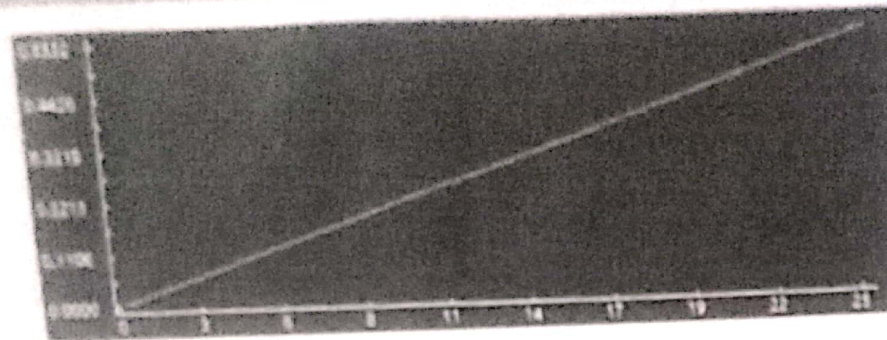
Standard position: 1
Standard value: 5.80
Absorbance: 0.4250

GM DATE TIME: 03/02/2024 21:43:07

Cal Hist
Lot Number: M01107300
Lot Expiry Date: Oct-2024

Clear Delete Save

Test name
1100: A-01
Absorbance



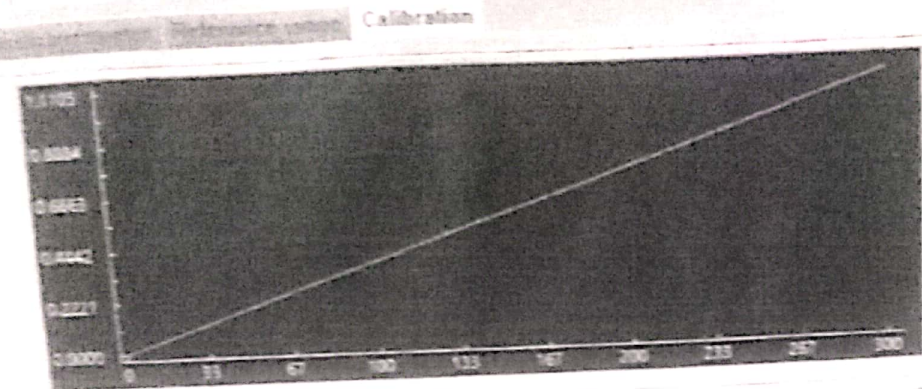
Curve Type: One point
Number of standards: 1
Cup or Tube: Cup
Valid Days: 0

Standard position: 1
Standard value: 7.00
Absorbance: 0.01549

CAL DATE TIME: 03/02/2024 21:40:17
Cal Time
Lot Number: ME102308
Lot Expiry Date: Oct-2024

Clear Delete Save

Test code: LIFE A
Test name: LIFE A



K = 278.14

Curve Type: One point
Number of standards: 1
Cup or Tube: Cup
Valid Days: 18

Standard position: 1
Standard value: 114.00
Absorbance: 0.4220

CAL DATE-TIME: 03/02/2024 - 21:37:54

Cal Hist

Lot Number: ME102308
Lot Expiry Date: Oct 2024

Clear Delete Save

Test Parameters

Test code

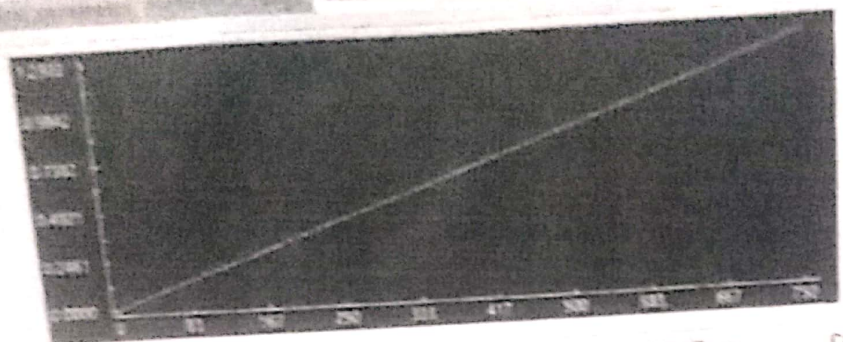
Test name

CHOL

CHOLESTEROL

Calibration

K = 609.67



Curve Type

Number of standards

Cup or Tube

Valid Days

CAL DATE-TIME

Cal Hist

One point

1

Cup

0

03/02/2024 - 21:46:18

Lot Number

M0102300

Lot Expiry Date

Oct-2024

Standard position

1

Standard value

151.80

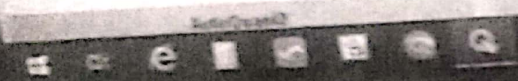
Absorbance

0.2477

Clear

Delete

Save



Administrator

OperatorAdmin

8/30/2024 PM 02:58:29

VERSION

1.0.0