



arkray healthcare Pvt. Ltd.
Plot no. 336, 338, 340, Road no. 3, G.I.D.C.,
Sachin 394 230, (Surat), India. Telephone: 0261-239 7712 to 15
Facsimile: 0261-239 7719, URL: <http://www.arkray.co.in>

Calibration Certificate


Customer Name	Q PLUS DIAGNOSTIC
Instrument Name	AUTO CHEM XACT PRO
Installation Date	24-07-2021
Serial Number	2021052005
Calibrated On	24-07-2024
Next Calibration Due	23-07-2025

Filter Check

Filter (nm)	Status	Filter (nm)	Status
340 nm	OK	405 nm	OK
450 nm	OK	510 nm	OK
546 nm	OK	578 nm	OK
620 nm	OK	660 nm	OK
700 nm	OK		

On basis of above mention checks, the instrument is functioning satisfactory.
If any major breakdown occur instrument to be re-validated.

Best Regards,


Atul Kumar Tiwari (SE)
Arkray Healthcare Pvt Ltd

Regd. Office: 701/702, Opulence-6th Road, TPS III, Santacruz (East) Mumbai-400 055 INDIA :telephone: +91 - 22-6155 9355 :
facsimile: +91-22-61559356: CIN NO :U51507MH2007PTC175112





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Installation Qualification Certificate.

AutoChem Xat Pro	Received	Undamaged
Accessories	Received	Undamaged

Assembly and Installation:

Place of Installation	Q PLUS DIAGOSTIC Shop No. 4 pocket 2 Sector – 24 Rohini Delhi
Date of Installation : 24-07-2021 Analyzer Serial No : 2021052005 Installed By : Mr. Atul Kumar Tiwari	
Initial Check Up / Auto Self Diagnosis	Passed
Auto Chem Xat Pro is successfully installed and is in a fully working condition.	
 For, Arkray Healthcare Pvt Ltd.	 Customer's Signature and Stamp

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CIN NO : U51507MH2007PTC175112





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Plot no. 336, 338, 340, Road no. 3, GLDC,
Sector 39A 230, (Surat), India. Telephone: 0261-239 7712 to 15
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OPERATIONAL QUALIFICATION (OQ)

Auto Chem Xact Pro
Analyzer Serial No: 2021052005

OPERATIONAL PARTS	Working	Not Working
Reagent/Sample Tray Movement	O.K.	---
Cuvvete Tray Movement	O.K.	---
Reagent Refrigeration Section	O.K.	---
Cuvvete section Temperature (37 C)	O.K.	---
Mixer Arm Movement	O.K.	---
Sample Arm Movement	O.K.	---
Reagent /Sample liquid level detection	O.K.	---
Waste & DI water sensor	O.K.	---
Optical Section	O.K.	---
External computer & Software	O.K.	---

All the parts of Auto Chem Xact Pro are in working condition & Operation of analyzer is according to given specifications at the user's environment.

 For, Arkray Healthcare Pvt Ltd.	 Customer's Signature and Stamp
--	--

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CIN NO :U51507MH2007PTC175112



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PERFORMANCE QUALIFICATION (PQ)


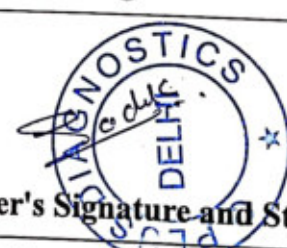
Auto Chem Xact Pro	SN: 2021052005	Date: 24/07/2021
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Calibration: Calibration done with Multi calibrator C.f.a.s. (Lot:410063)

Verification of the instrument results is done and in range.

Roche Lot (410119)	Results	Range of Control
Glucose	102.7	(88.0-118.0) mg/dl
ALP	104.92	(83.0-119.0) IU/L
Creatnine	1.14	(0.88-1.24) mg/dl
Albumin	3.74	(2.84-4.08) g/dl
SGOT	48.16	(39.60-57.00) IU/L
Cholesterol	41.41	(32.40-43.80) mg/dl
Total Protein	5.14	(4.59-5.83) g/dl

The results obtained are satisfactory. This is to certify that AutoChem Xact Pro is working OK & results are within recommended range.

 For, Arkray Healthcare Pvt Ltd.	 Customer's Signature and Stamp
--	--

Regd. Office: 701/702, Opulence.6th Road, TPS III, Santacruz(East) Mumbai-400 055 INDIA : telephone: +91 - 22-6155 9355 : facsimile: +91-22-61559356;
CIN NO : U51507MH2007PTC175112

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56
ACT	58

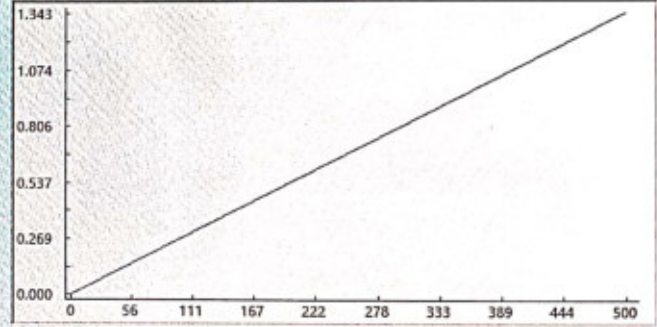
Full name Item **GLU** Code **1**

Basic parameter Reference range Calibration

Number of standards: 1

Calib Curve: Single point

Standard position	Standard value	Absorbance
1	189.00	0.5075
2		
3		
4		
5		
6		



K = 372.41

OD. modify

Cali Hist

Calibration cup: Cup Calibration Lot Number: 29450 Expiry Date: 07-09-2025

Printview Print Export

00.00.00 12.33.54

Administrator

Operator:

23-08-2024 PM 01:34:58

Search



ENG US 13:34 23-08-2024

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Full name Item UREAGLDH Code 25

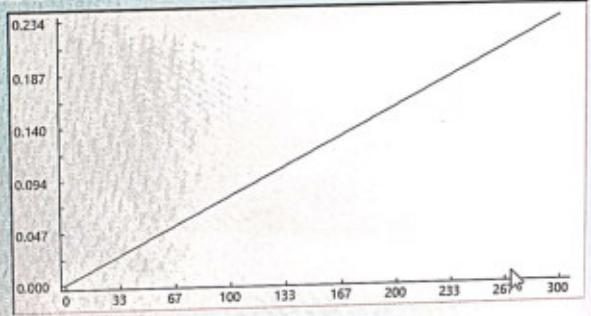
Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Basic parameter Reference range Calibration

Number of standards 1

Calib Curve Single point

Standard position	Standard value	Absorbance
1	106.00	0.0826
2		
3		
4		
5		
6		



K = 1283.29

OD. modify

Cal. Hist.

Calibration cup: Cup
Calibration Lot Number: 29836
Expiry Date: 01-05-2026

Printview

Print

Export

00 00 00 12 33 54

Administrator

Operator:

23-08-2024 PM 01:35:27

ENG US

13:35 23-08-2024

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Full name: Item: **CREAT** Code: **11**

Basic parameter Reference range Calibration

Number of standards:

Calib Curve:

Standard position	Standard value	Absorbance
1	3.81	0.1657
2		
3		
4		
5		
6		

K =

Calibration cup: Calibration Lot Number: Expiry Date:

VERSION: 00.00.00

Logs: 12.33.54

Weather alert in effect

Administrator

Operator

23-08-2024 PM 01:35:47

ENG US 11:35 23-08-2024



PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Item: **BILLI** Code: **26**

Basic parameter Reference range Calibration

Number of standards: 1
Calib Curve: Single point

Standard position	Standard value	Absorbance
1	4.11	0.1900
2		
3		
4		
5		
6		

K = 21.63

Buttons: OD. modify, Cal. Hist.

Calibration cup: Cup Calibration Lot Number: Expiry Date:

Buttons: Printview, Print, Export

Item	Code
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	58
GGT	58
FERR	59
LIPASE	60

VERSION: Logs 00 00 00 12 33 54 Administrator Operator 23-08-2024 PM 01 35 59

Weather alert in effect

PARAMETER

Test Parameter
Profile
Item-Test sequence
Calculation item
External parameter
Reflex test

Full name
Item
TP
Code
5

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Basic parameter
Reference range
Calibration

Number of standards

Calib Curve

	Standard position	Standard value	Absorbance
1	1	5.41	0.1251
2			
3			
4			
5			
6			

K =

OD. modify
Cali. Hist

Calibration cup

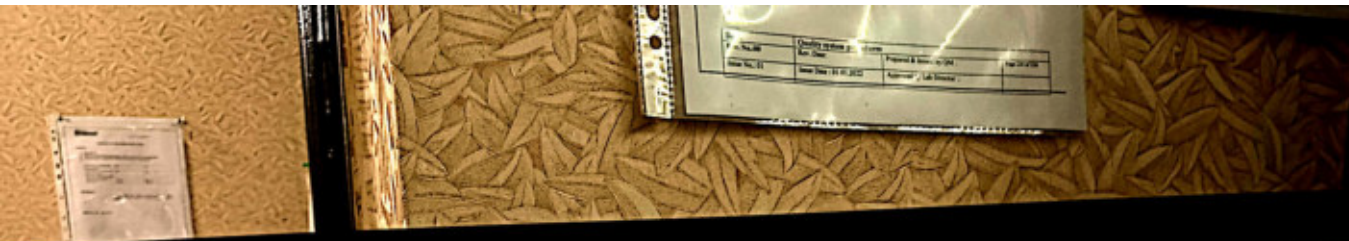
Calibration Lot Number

Expiry Date

Printview
Print
Export

VERSION
Logs
00:00:00 12:33:54
Administrator
Operator:
23-08-2024 PM 01:36:17

Weather alert
In effect
Search
ENG US
13:36
23-08-2024



PARAMETER

CUSTOMER

PARAMETER

QC.

STAT

REPORT

STATISTICS

MAINTENANCE

RUN MONITOR

EXIT

Test Parameter
Profile
Item-Test sequence
Calculation item
External parameter
Reflex test

Item
ALB
Code
6

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Full name
Item
ALB
Code
6

Basic parameter
Reference range
Calibration

Number of standards
1

Calib Curve
Single point

Standard position	Standard value	Absorbance
1	3.64	0.5534
2		
3		
4		
5		
6		

Calibration cup
Calibration Lot Number
Expiry Date

Cup

OD. modify
Cal. Hist.

Printview
Print
Export

VERSION
Logs
00:00:00 12:33:54
Administrator
Operator:
23-08-2024 PM 01:36:31

Weather alert in effect
Search
ENG US
23-08-2024

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Full name: Item: **CAL** Code: **18**

Basic parameter Reference range Calibration

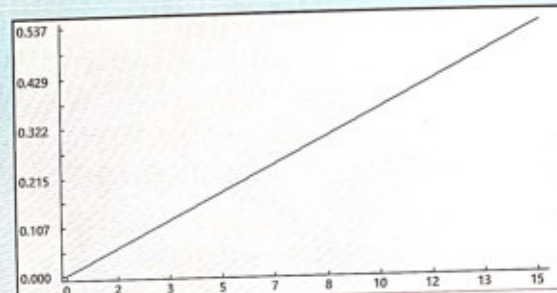
Number of standards: Calib Curve:

Standard position	Standard value	Absorbance
1	10.10	0.3613
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>

Calibration cup: Calibration Lot Number: Expiry Date:

K =

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56



PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Full name Item **UA** Code **4**

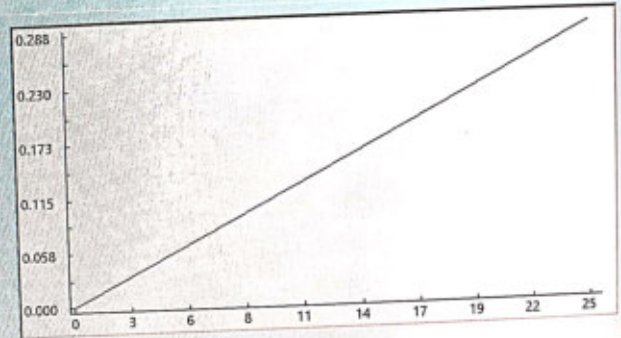
Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Basic parameter Reference range Calibration

Number of standards

Calib Curve

	Standard position	Standard value	Absorbance
1	<input type="text" value="1"/>	<input type="text" value="5.42"/>	<input type="text" value="0.0624"/>
2	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>	<input type="text"/>



K =

OD, modify

Cali. Hist.

Calibration cup Calibration Lot Number Expiry Date

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Full name Item **TG** Code **3**

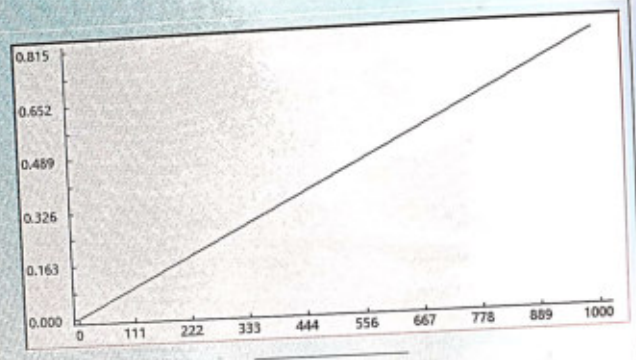
Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Basic parameter Reference range Calibration

Number of standards: 1

Calib Curve: Single point

Standard position	Standard value	Absorbance
1	144.00	0.1173
2		
3		
4		
5		
6		



K = 1227.62

OD. modify Cali. Hist

Calibration cup: Cup

Calibration Lot Number: 30200

Expiry Date: 30-09-2026

Printview Print Export

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Full name HDL Item HDL Code 51

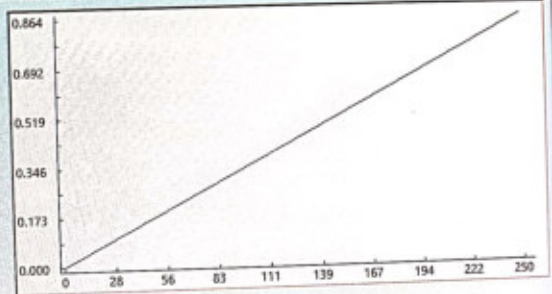
Basic parameter Reference range Calibration

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
ICE	55
IRON	56

Number of standards 1

Calib Curve Single point

Standard position	Standard value	Absorbance	
1	38	40.20	0.1390
2			
3			
4			
5			
6			



K = 289.21

OD. modify

Cali. Hist

Calibration cup

Calibration Lot Number

Expiry Date

Cup

LS03-028

30-11-2024

Print

Printview Print Export

00:00:00 12:33:54

Administrator

Operator

23-08-2024 PM 01:38:09

ENG US 13:38 23-08-2024



Search



PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Full name: Item: **SGOT** Code: **8**

Basic parameter Reference range Calibration

Number of standards:

Calib Curve:

Standard position	Standard value	Absorbance
1	100.00	0.0512
2		
3		
4		
5		
6		

K =

OD. modify Cali Hist.

Calibration cup: Calibration Lot Number: Expiry Date:

Printview Print Export

00 00 00 12 33 54

Administrator

Operator:

23-08-2024 PM 01:38:40



ENG 11% 13:38 23-08-2024

PARAMETER

Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

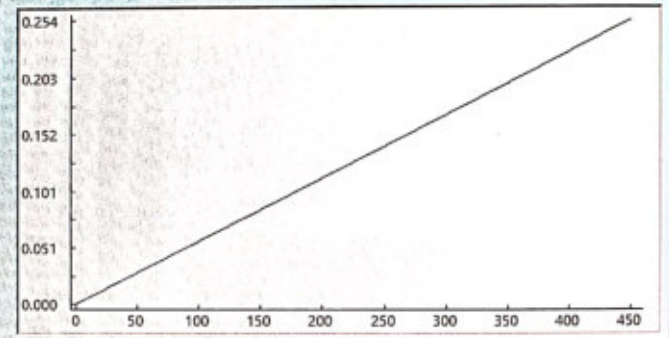
Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Full name Item SGPT Code 7

Basic parameter Reference range Calibration

Number of standards: 1
Calib Curve: Single point

Standard position	Standard value	Absorbance
1	95.80	0.0540
2		
3		
4		
5		
6		



K = 1774.07

OD. modify Cali. Hist

Calibration cup: Cup
Calibration Lot Number:
Expiry Date:
[Empty input field]

Printview Print Export

PARAMETER

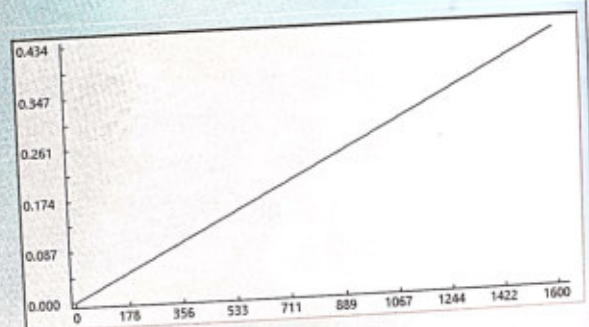
Test Parameter Profile Item-Test sequence Calculation item External parameter Reflex test

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Full name: [] Item: ALP Code: 9

Basic parameter Reference range Calibration

	Standard position	Standard value	Absorbance
1	1	255.00	0.0692
2			
3			
4			
5			
6			



OD. modify Cal. Hist.

Calibration cup: Cup Calibration Lot Number: 14252 Expiry Date: 20-08-2025

Printview Print Export

PARAMETER

Test Parameter

Profile

Item-Test sequence

Calculation item

External parameter

Reflex test

Item Code

Full name

Item

AMY

Code

10

Item	Code
GLU	1
CHOL	2
TG	3
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56

Basic parameter

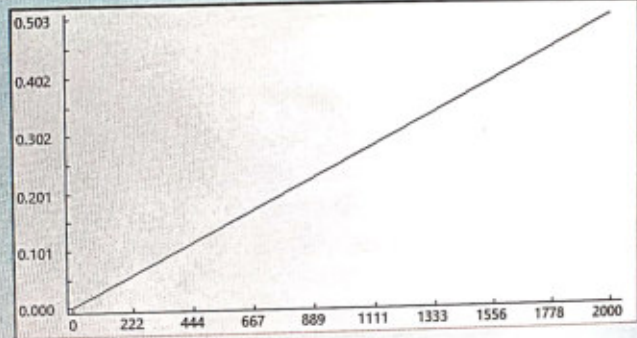
Reference range

Calibration

Number of standards: 1

Calib Curve: Single point

Standard position	Standard value	Absorbance
1	167.00	0.0420
2		
3		
4		
5		
6		



K = 3976.19

OD. modify

Cal. Hist

Calibration cup

Calibration Lot Number

Expiry Date

Cup

Printview

Print

Export

00.00.00 12.33.54

Administrator

Operator:

23-08-2024 PM 01:39:25

Search

ENG US

13:39 23-08-2024

PARAMETER

Test Parameter

Profile

Item-Test sequence

Calculation item

External parameter

Reflex test

Full name **IRON** Item **IRON** Code **56**

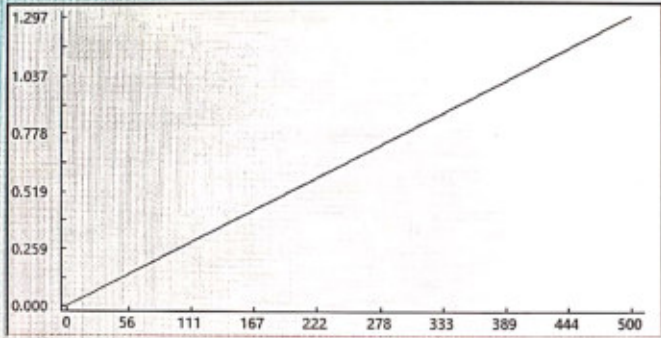
Item	Code
UA	4
TP	5
ALB	6
SGPT	7
SGOT	8
ALP	9
AMY	10
CREAT	11
CAL	18
CRP	20
HBA1C	21
UREAGLDH	25
BILLI	26
BILLD	27
RA	33
PHOS	42
HDL	51
IGE	55
IRON	56
GGT	58
FERR	59
LIPASE	60

Basic parameter Reference range Calibration

Number of standards: 1

Calib Curve: Single point

Standard position	Standard value	Absorbance
1	189.00	0.4902
2		
3		
4		
5		
6		



K = 385.56

OD. modify

Cali. Hist

Calibration cup: Cup

Calibration Lot Number: _____

Expiry Date: _____

Save Changes

Printview Print Export

00 00 00 12 33 54

Administrator

Operator:

23-08-2024 PM 01:39:42

Windows taskbar with search, task icons, and system tray (ENG US, 13:39, 23-08-2024).