

Date: __ 17-02-2022 _____

Certificate of Calibration

Name & Address of Customer: Pathology lab, District Women Hospital, Pilibhit

City -Pilibhit

State- Uttar Pradesh

Pincode- 262001

Name of Instrument : Selectra ProM

Type: Fully Automatic Biochemistry Analyser

Serial No: 16-4152

Calibration Date: 17 February 2022

Next Calibration Due: 16 February 2023

This is to certify that above said instrument has been validated of hardware calibration for Filters, Aspiration, Temperature & Lamp according to the procedures provided by Elitech Group Clinical Systems, France.

These instruments conform to CE-IVD & EU directives of use.

Calibration carried out on site by

Signature & Stamp

Name of Engineer : _____
POCT Services



Encls.- SOP of Validation/Calibration along with data.

Validation / Calibration - SOP

Selectra ProM

Name of the Customer :Pathology Lab, District Women Hospital, Pilibhit	
Address : Tanakpur Road, Pilibhit	
Serial No : 16-4152	
Status : Warranty/ AMC	Validation & Preventive Maintenance

➤ **Power Supply**

Measure Input power Supply Voltage: 228V (230 V AC \pm 10 V)

Check Earthing: 2V (0 - 5 V)

➤ **Ambient temperature**: 27.5° C (10 - 35 ° C)

➤ **Appearance** : Clean_ (Clean/Dusty)

➤ **Bellow Pumps** : Open the pump assays and clean it thoroughly.

➤ **Analyzer Control**

Filter : Select the desired position through the Service menu.

Filter wheel sets the desired Filter : Yes

Filter Status : Needs replacement (Yes/ NO)

ρ 340nm ρ 405nm ρ 505nm ρ 546 nm ρ 578 nm ρ 620 nm ρ 660 nm ρ 700 nm

Temperature : Select the desired Options through the Service mode.

Temperature OK : Yes

Pump : Select the desired volume through the Service mode

Verify by aspirating the same Quantity : OK

Valve : Select the desired position through the service mode.
Valve is energized: Yes

Syringes : Check for syringe leakage by physical inspection of syringes.
No water leakage Found.

Cuvette Drier Block : Check the condition of cuvette drier block by removing the cover of cuvette rotor and lifting the wash arm through service menu. It should be reasonably clean. If dirty please change the drier block

Mixer Belts – Check the elasticity of mixer belts. Should be reasonably good or replace the belts.

Cuvette Rotor Blank : Perform rotor blank and check the OD values of cuvettes. All cuvette blank OD values should be within acceptable range. If required replace the cuvette rotor.

➤ Temperature Calibration

Select Temperature in Service Menu. It should be $37\text{ }^{\circ}\text{C} \pm 0.2\text{ }^{\circ}\text{C}$
Verify with temperature Indicator by surface probe in cuvette rotor. If any discrepancy add the offset of difference in actual & desired temperature.

Temperature Calibration Data				
Displayed Temp	Ref. Range	Temp. Indicator	Temp Offset Required	Temp. offset Value
35 °C	$37\text{ }^{\circ}\text{C} \pm 0.2\text{ }^{\circ}\text{C}$	35.2 °C	No	0 °C
Remarks	Temp. Calibration OK. No offset required.			

Hardware Calibration of Selectra Pro M

➤ Lamp Calibration/Alignment

Lamp Adjustment :-

1. Flush the system with distilled water by doing Rotor Blank.
2. Select Adjust Lamp in service menu. Check Value obtained on Display. (Adjust the lamp, if it is out of 1.800 to 3.800, to as low as possible)

Do not touch lamp !! It may be Hot !!

Lamp alignment Data @ 340 nm wavelength			
Lamp Abs Obtained	Acceptable Range	Alignment	Remarks
3.40 Abs	1.800 to 3.800 abs	Done	Lamp O.D.in acceptable range. No replacement required.

➤ Checking the filters

Perform filter check in adjust lamp mode in service menu.

All the arrows must be in Green area. If not, then adjust lamp or replace filter if necessary.

Filter (Wavelength)	Gain Range	Gain Achieved	Remarks	Corrective Action
340	0.1 - 3.2	2.3112	OK	Not required
405	0.1 - 2.6	1.7040	OK	Not required
505	0.1 - 2.6	0.8877	OK	Not required
546	0.1 - 2.6	0.8021	OK	Not required
578	0.1 - 2.6	0.7274	OK	Not required
620	0.1 - 0.9	0.6372	OK	Not required
660	0.1 - 0.9	0.6291	OK	Not required
700	0.1 - 0.7	0.6370	OK	Not required
Over all Remarks	Filter gains within acceptable range. No replacement required.			

Volume calibration of pipettors:-

It is possible to check a predetermined amount of water to check the correct functioning of the pump. Before carrying out this check, the instrument must first carry out a flush routine to ensure that all system tubes are completely filled with water by doing fill system.

1. Go to Sample syringe full stroke. (For Pro M Model Only)
2. Collect the dispensed water. Check the dispensed volume using calibrated pipette. (For Pro M only)

Pipettor Calibration Data using distilled Water		
Full stroke volume to be dispensed (µl)	Dispensed volume checked and found complying as full stroke volume? (Yes/No)	Remarks
Sample Syringe:		
100	Yes	Pass
100	Yes	Pass
100	Yes	Pass
Reagent syringe:		
1000	Yes	Pass
1000	Yes	Pass
1000	Yes	Pass

Data for volumes other than full stroke:-

This can be verified using pre-determined amount of distilled water in sample/reagent cups and running any dummy program. As soon as the reagent probe/sample probe takes up the sample/reagent, those cups/bottles are taken back and verified for remaining volume using calibrated pipette. Same can be repeated for variable volumes by changing the aspiration volumes in test programmes.

Pipettor Calibration Data using distilled Water				
Measured Volume taken in sample cup(µL) (A)	Water to be aspirated by syringe(µL) (B)	Water that should be remaining in cup after aspiration(µL) (C=A-B)	Is the remaining volume inside the cup was found to be the same as in column C? (Yes/No)	Remarks
Reagent syringe:				
5000	250*4=1000	4000	Yes	Pass
Sample syringe:				
500	4*4=16	484	Yes	Pass

➤ Reagent Calibration of the Instrument

Customer is advised to verify the hardware calibration by reagent calibration. Use Elitech Calibrator Elical 2 for the calibration of all parameters.

User can do the same & attach the results in separate sheet with factors after verifying the same with Elitech Elitol I & Elitol II controls. All control values should fall within acceptable range.

- Switch Off the instrument.
- Ensure all the Recommended Spares / Consumables have been replaced.(if not done during PM and required)
- Clean the instrument.
- Close the cover.

Recommended Spares for replacement : NIL

We hereby certify that Validation have been carried out under the AMC/Warranty. Hardware Calibration of Lamp, Filters, Temperature & Aspiration (Pump) has been done successfully.

Please perform the standardization / Calibration and verify by evaluating controls before processing patient samples.

Next Calibration is due on -16 February 2023



Signature of Service Engineer

Place: *Pilibhit*
Date: *17/02/2022*

- Reset system
- Change cuvette rotor
- Change syringes
- Fill/Empty system
- Clean system
- Rotor/Needle rinse
- ▶Blank rotor

340 nm	1-12	13-24	25-36	37-48
405 nm	0.44542	0.43703	0.41706	0.41347
505 nm	0.43876	0.41856	0.40898	0.43081
546 nm	0.44441	0.42895	0.40546	0.44004
578 nm	0.42159	0.41885	0.39408	0.45280
620 nm	0.40182	0.43891	0.39071	0.42168
660 nm	0.40683	0.41129	0.39720	0.41544
700 nm	0.40063	0.42657	0.39101	0.43167
	0.39480	0.42083	0.39637	0.42065
	0.41120	0.41894	0.40873	0.41311
	0.39460	0.42803	0.42274	0.42173
	0.39866	0.41616	0.41484	0.41549
	0.40579	0.40236	0.41026	0.41127


Cuvette AV: 0.4113 SD: 0.0112 Cuvette Gain: 14.0000
 Lamp AV: 3.3118 SD: 0.0033 Lamp Gain: 15.0000
 Last blank date: 17-Feb-2022
 time: 12:16:27 AM

F1

 Print

F2

 Blank Rotor

F7

 Graph Mode

F8

 Maintenance Report

F10

 Special Functions

Active

Loadable

DUAL MODE

Req / tray buffer 12/9

Standard

01:59:25 PM

17-Feb-2022 HOST

► Adjust Lamp

- Reagent Arm
- Sample Arm
- Reagent Disk
- Sample Disk / Barcode
- Measurement Disc/Filter
- Wash Arm
- Pipettor
- Vacuum system
- Water system
- Optical electronics
- Electronics

Filter check

	340	405	505	546	578	620	660	700
	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6	-2.6
	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4	-2.4
	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2	-2.2
	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0	-2.0
	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8	-1.8
	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6	-1.6
	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4	-1.4
	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2	-1.2
	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0
	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8	-0.8
	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6	-0.6
	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4
	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2
	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
	2.3112	1.7040	0.8877	0.8021	0.7274	0.6372	0.6291	0.6370

F1

Lamp adjustment

F10

Return

- ▶ Adjust Lamp
- Reagent Arm
- Sample Arm
- Reagent Disk
- Sample Disk / Barcode
- Measurement Disc/Filter
- Wash Arm
- Pipettor
- Vacuum system
- Water system
- Optical electronics
- Electronics

Lamp adjustment

Lamp absorbance	Cuvette absorbance	00 : 00
-4.6	-4.4	<p>Please wait for 5 minutes (see above clock) to let the lamp stabilize.</p> <p>Loosen the screw with the spring.</p> <p>Adjust the other two screws such that the lamp absorbance and the cuvette absorbance fall within the green range and are as low as possible.</p> <p>Also, check for the first 5 filters. If the absorbance has a decreasing "profile".</p> <p>Then do a filter check by inspecting if all values fall within the green range. If not, adjust the lamp again such that the absorbance values are a little bit higher.</p> <p>When finished, tighten the screw with the spring.</p>
-4.4	-4.4	
-4.2	-4.2	
-4.0	-4.0	
-3.8	-3.8	
-3.6	-3.6	
-3.4	-3.4	
-3.2	-3.2	
-3.0	-3.0	
-2.8	-2.8	
-2.6	-2.6	
-2.4	-2.4	
-2.2	-2.2	
-2.0	-2.0	
3.4002	2.8113	

F1

Filter check

F10



Return

Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

Type	Sample ID	Patient name
S	ELICAL 2	
C	ELITROL-1	
C	ELITROL-2	

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEIN		
+ ALBUMIN		
+ CALCIUM ARS		

F1 Print	F2 Blank/Calib Info	F3 Result Handling	Alt + F4/Shift + F4 Measure Again/Rerun	F6 Quality Control	F7 Result Details	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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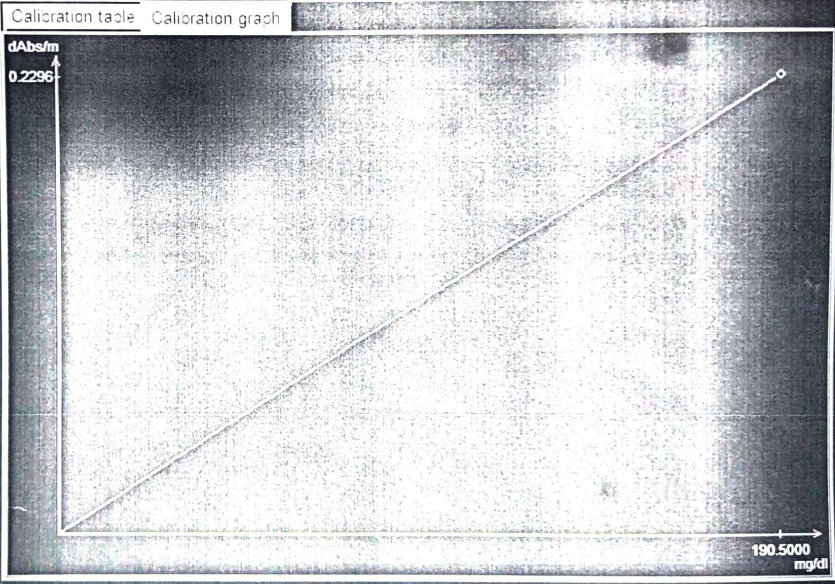
Evaluate Results

Calibrator name ELICAL 2
Batch number 03-3160-02
Expiry date:

Measurement date: 17-Feb-2022 10:42:47 AM
Sample type: Calibrator
Status: READY A1

GLUCOSE Factor :829.7846
COMPLETED

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEIN		
+ ALBUMIN		
+ CALCIUM ARS		

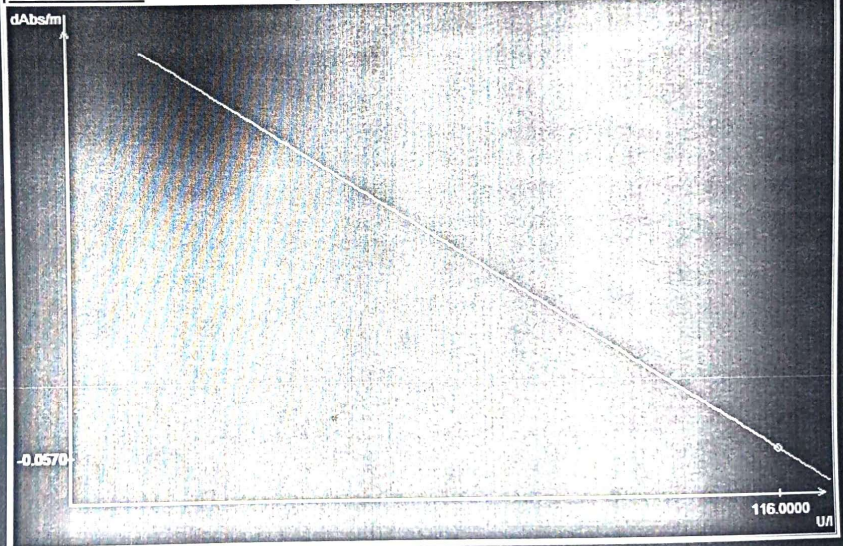


F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	Shift+F5 View Test Parameters	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Calibrator name: ELICAL 2
Batch number: 03-3160-02
Expiry date:
Measurement date: 17-Feb-2022 10:42:47 AM
Sample type: Calibrator
Status: READY A1

SGOT Factor :2,036.7550
COMPLETED

Calibration table Calibration graph



Test name	Value	Flags
<input type="checkbox"/> GLUCOSE		
<input checked="" type="checkbox"/> SGOT		
<input type="checkbox"/> SGPT		
<input type="checkbox"/> ALP		
<input type="checkbox"/> BIDA		
<input type="checkbox"/> BITA		
<input type="checkbox"/> CHOLESTROL		
<input type="checkbox"/> CRE		
<input type="checkbox"/> TG		
<input type="checkbox"/> UREA		
<input type="checkbox"/> URIC ACID		
<input type="checkbox"/> TOTAL PROTIEIN		
<input type="checkbox"/> ALBUMIN		
<input type="checkbox"/> CALCIUM ARS		

F1



Print

F2



Table Mode

F3



Accept Result

F4



Reject Result

F5



Measure Again

F6



Measure Rerun

F7



Sample List

F8



Request Samples

F9



Sample Handling

F10

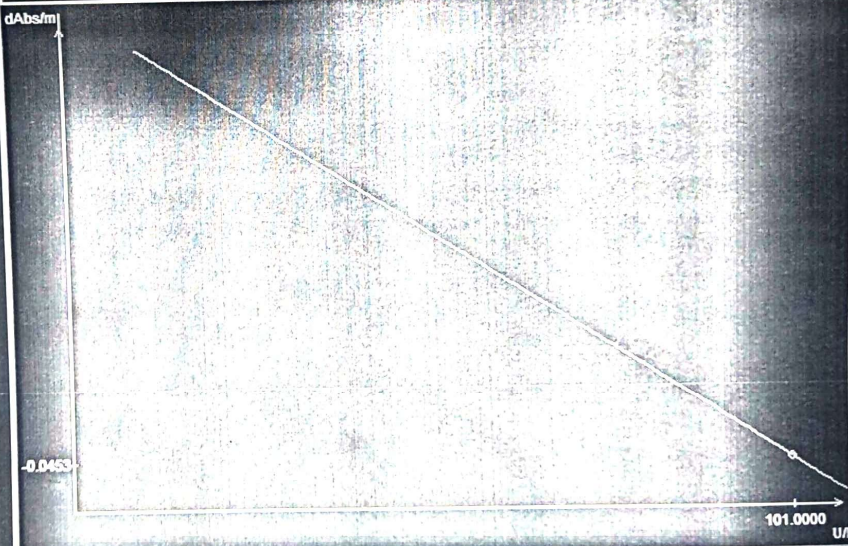


Main Menu

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

SGPT Factor: -2,231.7780
COMPLETED

Calibration table Calibration graph



Test name	Value	Flags
<input checked="" type="checkbox"/> GLUCOSE		
<input checked="" type="checkbox"/> SGOT		
<input checked="" type="checkbox"/> SGPT		
<input checked="" type="checkbox"/> ALP		
<input checked="" type="checkbox"/> BIDA		
<input checked="" type="checkbox"/> BITA		
<input checked="" type="checkbox"/> CHOLESTROL		
<input checked="" type="checkbox"/> CRE		
<input checked="" type="checkbox"/> TG		
<input checked="" type="checkbox"/> UREA		
<input checked="" type="checkbox"/> URIC ACID		
<input checked="" type="checkbox"/> TOTAL PROTIEN		
<input checked="" type="checkbox"/> ALBUMIN		
<input checked="" type="checkbox"/> CALCIUM ARS		

F1



Print

F2



Table Mode

F3



Accept Result

F4



Reject Result

F5



Measure Again

F6



Measure Rerun

F7



Sample List

F8



Request Samples

F9



Sample Handling

F10



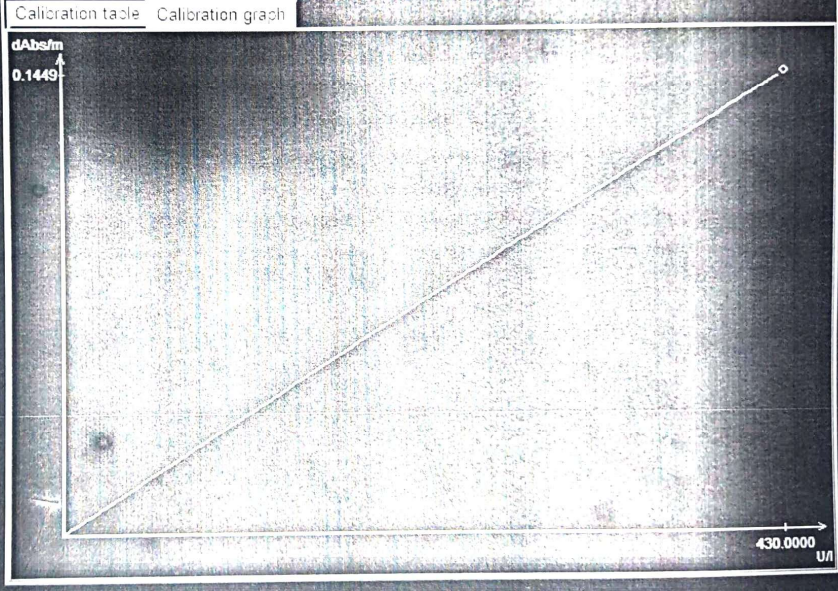
Main Menu

Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

Test name	Value	Flags
<input type="checkbox"/> GLUCOSE		
<input type="checkbox"/> SGOT		
<input type="checkbox"/> SGPT		
+ ALP		
<input type="checkbox"/> BIDA		
<input type="checkbox"/> BITA		
<input type="checkbox"/> CHOLESTROL		
<input type="checkbox"/> CRE		
<input type="checkbox"/> TG		
<input type="checkbox"/> UREA		
<input type="checkbox"/> URIC ACID		
<input type="checkbox"/> TOTAL PROTIEIN		
<input type="checkbox"/> ALBUMIN		
<input type="checkbox"/> CALCIUM ARS		

ALP Factor :2,967.6660
 COMPLETED

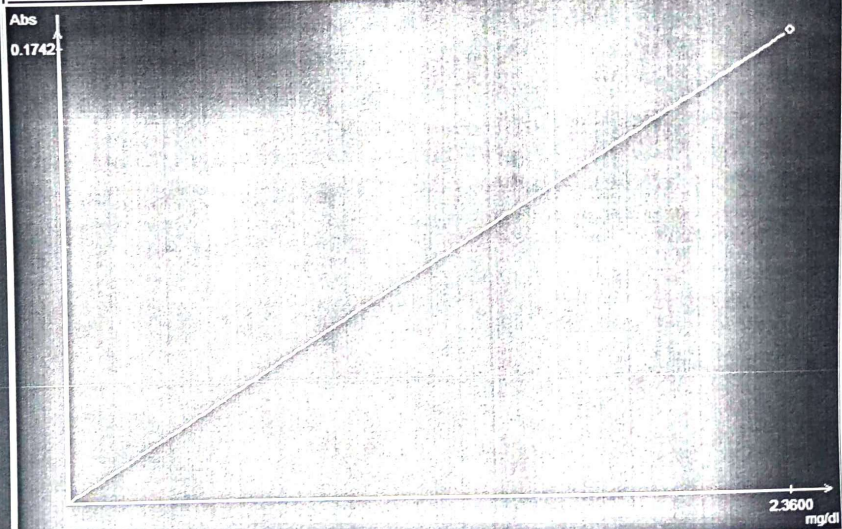


F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Calibrator name: ELICAL 2
Batch number: 03-3160-02
Expiry date:
Measurement date: 17-Feb-2022 10:42:47 AM
Sample type: Calibrator
Status: READY A1

BIDA Factor:13.5451
COMPLETED

Calibration table Calibration graph



Test name	Value	Flags
<input type="checkbox"/> GLUCOSE		
<input type="checkbox"/> SGOT		
<input type="checkbox"/> SGPT		
<input type="checkbox"/> ALP		
<input checked="" type="checkbox"/> BIDA		
<input type="checkbox"/> BITA		
<input type="checkbox"/> CHOLESTROL		
<input type="checkbox"/> CRE		
<input type="checkbox"/> TG		
<input type="checkbox"/> UREA		
<input type="checkbox"/> URIC ACID		
<input type="checkbox"/> TOTAL PROTIEN		
<input type="checkbox"/> ALBUMIN		
<input type="checkbox"/> CALCIUM ARS		

F1



Print

F2



Table Mode

F3



Accept Result

F4



Reject Result

F5



Measure Again

F6



Measure Rerun

F7



Sample List

F8



Request Samples

F9



Sample Handling

F10



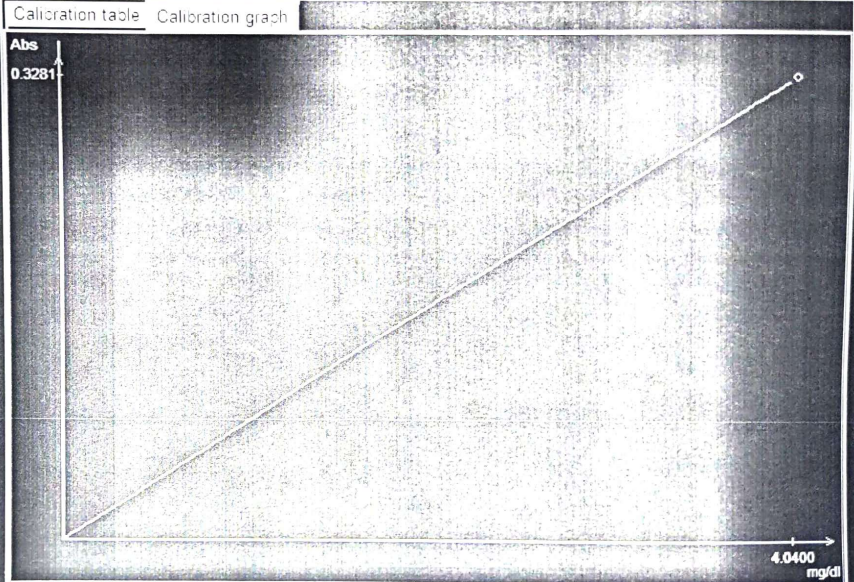
Main Menu

Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEIN		
+ ALBUMIN		
+ CALCIUM ARS		

BITA Factor :12.3151
COMPLETED



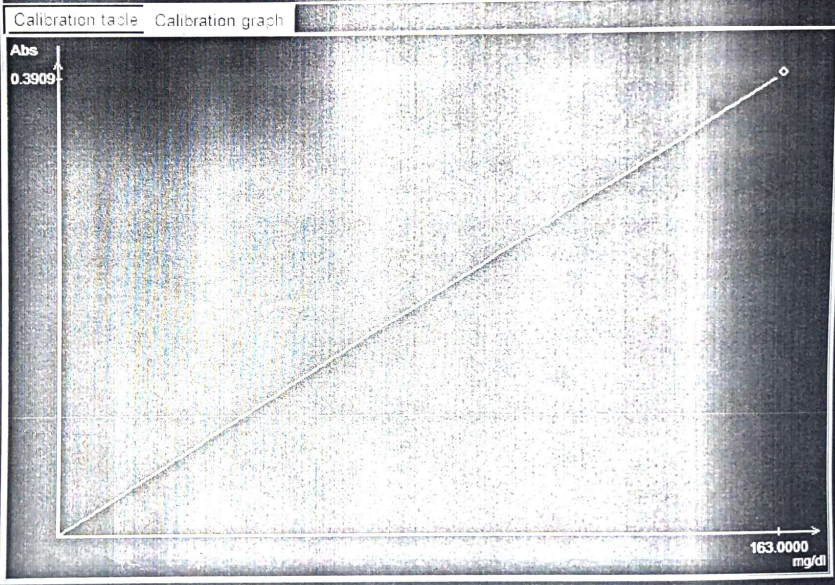
F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEIN		
+ ALBUMIN		
+ CALCIUM ARS		

CHOLESTROL Factor :417.0310
COMPLETED



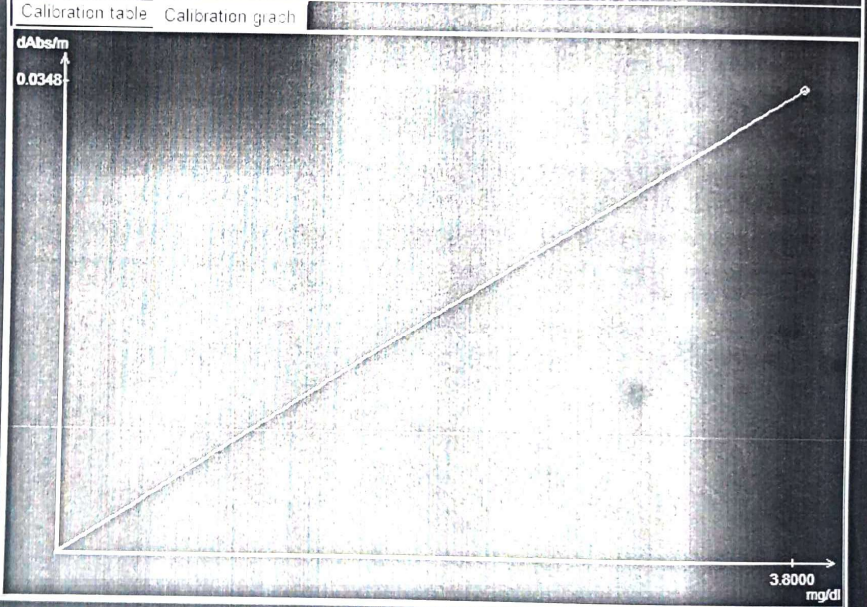
F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

CRE Factor :109.1803
COMPLETED

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEIN		
+ ALBUMIN		
+ CALCIUM ARS		



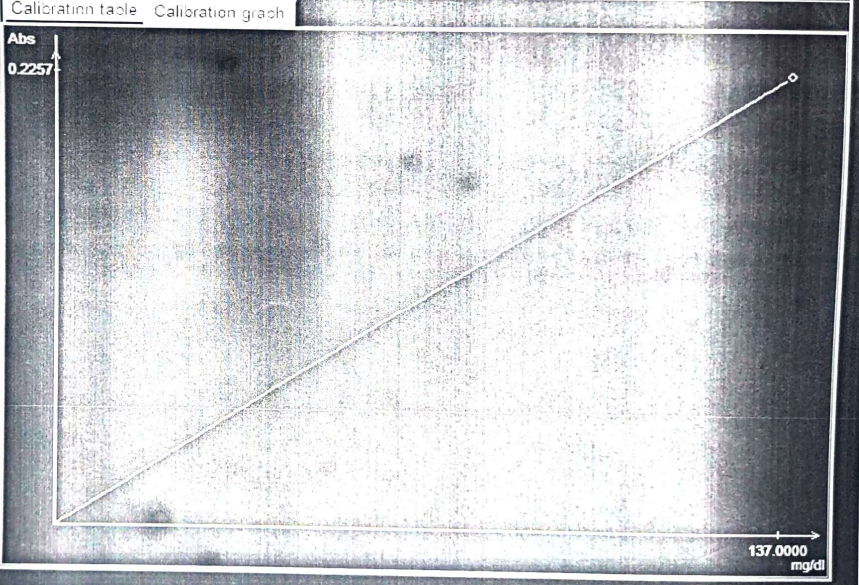
F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
Batch number: 03-3160-02
Expiry date:
Measurement date: 17-Feb-2022 10:42:47 AM
Sample type: Calibrator
Status: READY A1

TG Factor :606.9946
COMPLETED

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEN		
+ ALBUMIN		
+ CALCIUM ARS		

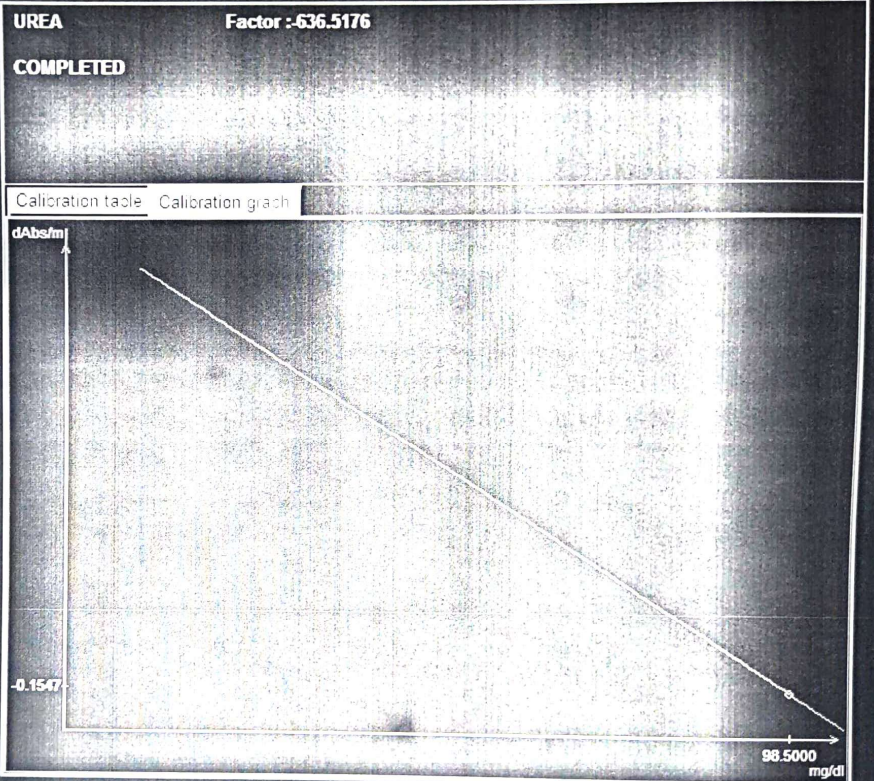


F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

Test name	Value	Flags
<input type="checkbox"/> GLUCOSE		
<input type="checkbox"/> SGOT		
<input type="checkbox"/> SGPT		
<input type="checkbox"/> ALP		
<input type="checkbox"/> BIDA		
<input type="checkbox"/> BITA		
<input type="checkbox"/> CHOLESTROL		
<input type="checkbox"/> CRE		
<input type="checkbox"/> TG		
+ UREA		
<input type="checkbox"/> URIC ACID		
<input type="checkbox"/> TOTAL PROTIEIN		
<input type="checkbox"/> ALBUMIN		
<input type="checkbox"/> CALCIUM ARS		



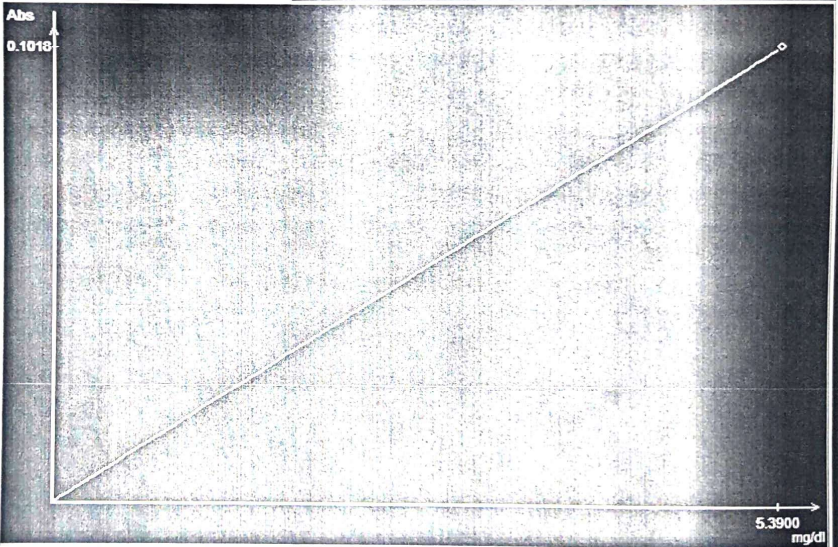
F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date: 17-Feb-2022 10:42:47 AM
 Sample type: Calibrator
 Status: READY A1

URIC ACID Factor :52.9223
 COMPLETED

Calibration table Calibration graph



Test name	Value	Flags
<input type="checkbox"/> GLUCOSE		
<input type="checkbox"/> SGOT		
<input type="checkbox"/> SGPT		
<input type="checkbox"/> ALP		
<input type="checkbox"/> BIDA		
<input type="checkbox"/> BITA		
<input type="checkbox"/> CHOLESTROL		
<input type="checkbox"/> CRE		
<input type="checkbox"/> TG		
<input type="checkbox"/> UREA		
+ URIC ACID		
<input type="checkbox"/> TOTAL PROTIEN		
<input type="checkbox"/> ALBUMIN		
<input type="checkbox"/> CALCIUM ARS		

F1



Print

F2



Table Mode

F3



Accept Result

F4



Reject Result

F5



Measure Again

F6



Measure Rerun

F7



Sample List

F8



Request Samples

F9



Sample Handling

F10



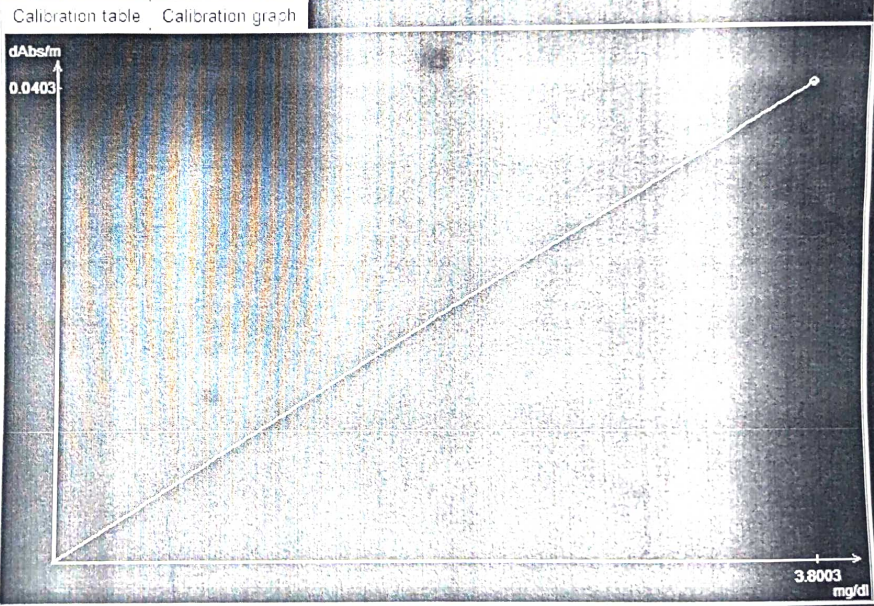
Main Menu

Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date:
 Sample type: Calibrator
 Status: READY A1

TOTAL PROTIEN Factor :19.3811
COMPLETED

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEN		
+ ALBUMIN		
+ CALCIUM ARS		



F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date:
 Sample type: Calibrator
 Status: READY A1

ALBUMIN Factor : 3.5154
COMPLETED

Test name	Value	-Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEN		
+ ALBUMIN		
+ CALCIUM ARS		



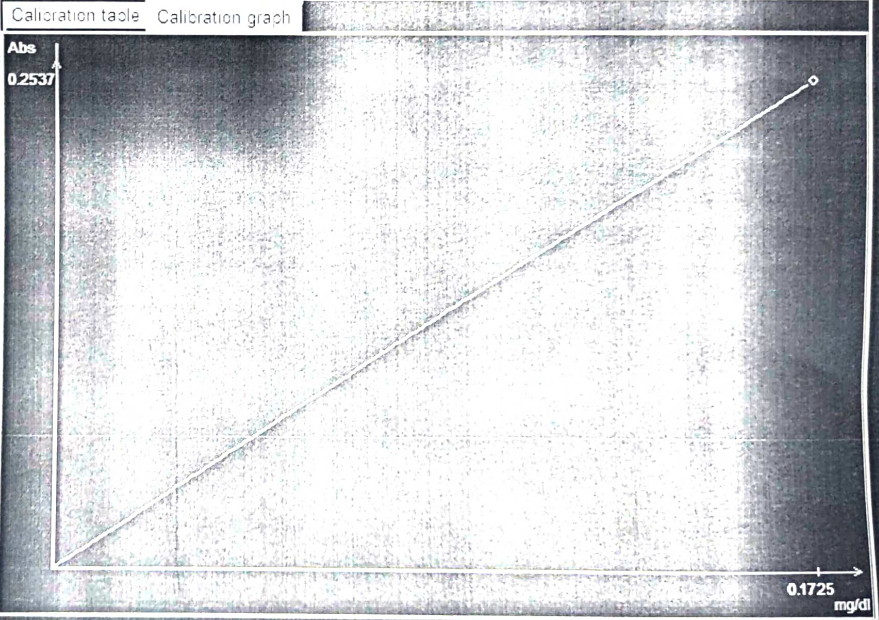
F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Calibrator name: ELICAL 2
 Batch number: 03-3160-02
 Expiry date:
 Measurement date:
 Sample type: Calibrator
 Status: READY A1

CALCIUM ARS Factor : 40.9906
COMPLETED

Test name	Value	Flags
+ GLUCOSE		
+ SGOT		
+ SGPT		
+ ALP		
+ BIDA		
+ BITA		
+ CHOLESTROL		
+ CRE		
+ TG		
+ UREA		
+ URIC ACID		
+ TOTAL PROTIEIN		
+ ALBUMIN		
+ CALCIUM ARS		



F1 Print	F2 Table Mode	F3 Accept Result	F4 Reject Result	F5 Measure Again	F6 Measure Rerun	F7 Sample List	F8 Request Samples	F9 Sample Handling	F10 Main Menu
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Evaluate Results

Control name: ELITROL-1
 Batch number: 01-1110-02
 Expiry date:
 Measurement date: 17-Feb-2022 11:18:52 AM
 Sample type: Control
 Status: READY A2

Test name	Value	Flags
GLUCOSE	97 mg/dl	
UREA	43 mg/dl	
CREATINE	0.60 mg/dl	
BIL-TOTAL	2.13 mg/dl	
BIL-DIRECT	1.15 mg/dl	
SGOT	40 U/l	
SGPT	47 U/l	
ALP	130 U/l	
ALBUMIN	3.2 g/dl	
URIC ACID	5.9 mg/dl	
CHOLESTROL	110 mg/dl	
TRIGLYCERIDE	112 mg/dl	
CALCIUM	9.1 mg/dl	
TP	4.9 g/dl	

SGPT 47 U/l

COMPLETED

Graph Table Info

Target: 43 U/l
Low limit: 35 U/l
High limit: 51 U/l

Used reagent bottles:

Reagent	Pos	Batch number	Expiry date
R1	11		
R2	27		

F1



Print

F2



Graph Mode

F3



Accept Result

F4



Reject Result

F5



Measure Again

F6



Measure Again

F7



Sample List

F8



Request

F9



Sample

F10



Main Menu

Evaluate Results

Control name: ELITROL-2
 Batch number: 02-2110-01
 Expiry date:
 Measurement date: 17-Feb-2022 10:48:23 AM
 Sample type: Control
 Status: READY A3

Test name	Value	Flags
GLUCOSE	232 mg/dl	
UREA	105 mg/dl	
CREATINE	2.50 mg/dl	
BIL-TOTAL	6.31 mg/dl	
BIL-DIRECT	3.23 mg/dl	
SGOT	138 U/l	
SGPT	133 U/l	
ALP	300 U/l	
ALBUMIN	4.1 g/dl	
URIC ACID	11.5 mg/dl	
CHOLESTROL	170 mg/dl	
TRIGLYCERIDE	214 mg/dl	
TP	7.0 g/dl	

SGOT 138 U/l

COMPLETED

Graph Table Info

Target: 148 U/l
 Low limit: 122 U/l
 High limit: 175 U/l

Used reagent bottles:

Reagent	Pos	Batch number	Expiry date
R1	10		
R2	26		

F1



Print

F2



Graph Mode

F3



Accept Result

F4



Reject Result

F5



Measure Again

F6



Measure Rerun

F7



Sample List

F8



Request Samples

F9



Sample Handling

F10



Main Menu