GSTIN: 09AAKFP4281G1ZY



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Date: 12June 2023

Certificate of Calibration

Name & Address of	Customer: <u>Tej Bahadı</u>	ur Sapru Hospital ,Department of Pathology
<u>,Prayagraj</u>		
City: Lucknow	State: <u>U.P.</u>	PIN: <u>226001</u>
Phone <u>0870753675</u>	<u>55</u>	E-Mail _
Name of Instrument	: Selectra PRO M	
Type: Random Acce	ess Fully Automatic Bio	chemistry Analyser
Serial No: <u>16-4037</u>		
Calibration Date: 0	2 May. 2023	
Next Calibration Du	e: <u>01 May. 2024</u>	
Filters. Aspiration,	t above said instrument and Temperature & La ical Systems, France.	thas been validated of hardware calibration for amp according to the procedures provided by
This calibration is c by Elitech Group, s	arried out by using Stan hown in the attachment.	idard Operating Procedures (S.O.P.) provided
These instruments	conform to CE-IVD & E	U directives of use.
Calibration carried	out on site by:- Mr. Lakh	nendra
Signature & Stamp Name of Engineer/	Application Specialist: -	- Ajit Mohan Dubey Asst. Senior Manager Application O Lucknow m

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



Validation / Calibration - SOP

Selectra ProM

Name of the Customer & Address : Tej Bahadur Sapru Hospital Dept. ofPathology					
Address:, <u>Prayagraj</u>					
Sr No: 16-4037					
Status : Under warranty	Validation & Preventive Maintenance				

> Power Supply

Measure Input power Supply Voltage:229_V (230 V AC \pm 10 V)

Check Earthling: 2.1 V (0 - 5 V)

- > Ambient temperature: 23 °C (10 35 °C)
- > Appearance : Clean (Clean/Dusty)
- > Bellow Pumps: Open the pump assays and clean it thoroughly.

> Analyser 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

Note: Filter checked status was ok no need of replacement.

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.

Note:- Condition of cuvette drier block is clean. No need to change.

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

Note:- Mixer belts are good no need to change.

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.

Note:- All cuvette blank OD values are in range no need to replace



Hardware Calibration of Selectra Pro S/Pro M

Lamp Calibration/Alignment

Lamp Adjustment :-

Flush the system with distilled water by doing Rotor Blank. 1.

Select Adjust Lamp in service menu. Check Value obtained on Display. (Adjust the lamp, if it is out of 1.800 to 4.000, to as low as possible)

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

Lamp Abs Obtained	Acceptable Range 1.800 to 4.200abs	Alignment	Lamp O.D.in acceptable range. No replacement
<u>3.3841</u> Abs	1.000 to		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.

When the absorbance value is too low to measure, i.e., the gain is too high, in this case, instead of the absorbance value, the value -99999 is shown.

Filter	Gain Range	Gain Achieved	Remarks	Corrective Action
(Wavelength)	0.1 - 3.5	2.2286	OK	Not required
340	0.1 - 3.5	1.3943	OK	Not required
405		0.7219	OK	Not required
505	0.1 - 2.6	0.6274	OK	Not required
546	0.1 - 2.6	0.5068	OK	Not required
578	0.1 - 2.6	0.4314	OK	Not required
620	0.1 - 1.2	0.3927	OK	Not required
660	0.1 - 0.7		OK	Not required
700	0.1 - 0.7	0.3485		
Over all	Filter gains with	n acceptable range	. No replacemen	it roquirou.
Remarks			t ing donor	

If it is necessary to replace defective filters, please contact service department.



➤ Calibration/Verification of performance of Pipetting system & measuring unit

- Install dichromate solution on reagent rotor(s) & as sample on sample rotor (Use service disk which has Pre-defined protocol installed for dichromate run).
- Run 10x "Check-S" or 10x "Check-R" as QC samples.

Test	Target Value	Target CV [%]	Mean Result	CV [%]
Check-S	0.08(0.060-0.100)	≤2%	0.075	0.220
Check-R	1.75(1.500-2.000)	≤2%	1.672	0.299

Remarks:

Rotor Blank acceptable. Instrument ready for chemical installation & calibration.

- Change reagent disk from Service to Standard
- Install the various reagents on reagent rotor(s)
- Install ISE reagents on reagent rotor(s) (If applicable)
- Run Reagent Blanks(s)
- Run Calibrations

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)

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POCT SERVICES

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Tel.: 0522-2433023

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

Data for volumes other than full stroke:-

This can be verified using pre-determined amount of distilled water in sample/regent 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.

Pippo Measured Volume taken in sample cup(µL) (A)	water to be aspirated by syringe(µL) (B)	wsing distilled Water that should be remaining in cup after aspiration(µL) (C=A-B)	Water Is the remaining volume inside the cup was found to be the same as in column C? (Yes/No)	
Reagent syringe 5000 µL	300 μL X 3 test =900 μL	4100 µL	Yes	OK
Sample syringe:	30 μL X 3 test =90 μL	210 µL	Yes	OK





Tel.: 0522-2433023

> Temperature Calibration

Select Temperature in Service Menu. It should be 37 °C \pm 2 °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 Value						
37° C	37°C 37 °C ± 2 °C 36.7°C No 0 °C					
Remarks Temp. Calibration OK. No offset required.						



> 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 Elitrol I & Elitrol II controls. All control values should fall within acceptable range.

Data sheets of the same should be attached along with this document.

- > 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 MOU. Hardware Calibration of Lamp, Filters, Temperature & Aspiration (Pump) has been done successfully.

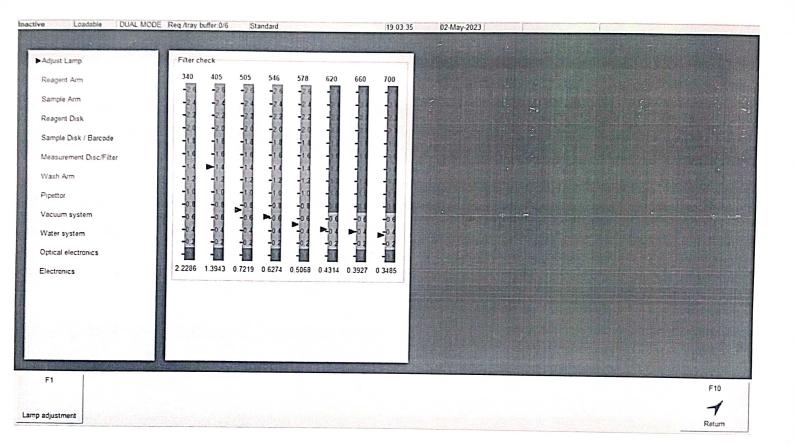
Please perform the standardization / Calibration and verify by evaluating controls before processing patient samples.

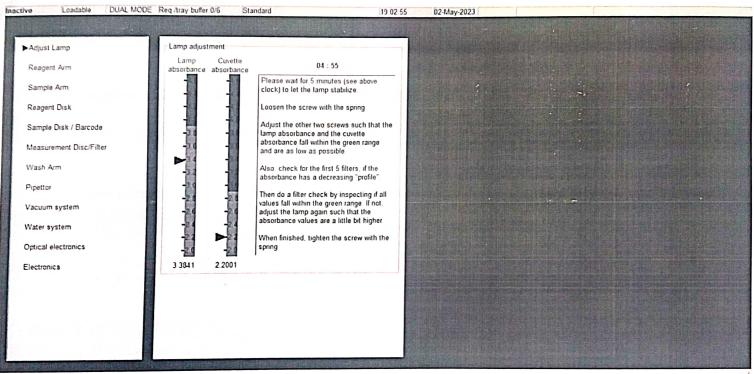
Next Calibration is due on: 01 May 2024.

Signature of Application Specialist

Place

Date.





F1

Filter check

F10

Return

