

CIN: U74120UP2010PTC042528 Corporate Office: 101A-102B, First Floor, Dlamond Tower, Udalyganj, Cantt Road, Lucknow-226001, Uttar Pradesh, INDIA Tel.: +91 522 4009779

E-mail: poctlko@rediffmail.com

Date: 07/09/2024

Certificate of Calibration

Name & Address of Cus	tomer: <u>Pathology Lab, Combined/TI</u>	3 Hospital
Lucknov	v, UP	
City -Lucknow	State- Uttar Pradesh	PIN: 226003
Name of Instrument: Sel	ectra Pro-M	
Type: Random Access F	ully Automatic Biochemistry Analyser	

Serial No: 16-4033

Calibration Date: 07/09/2024

Next Calibration Due: 06/09/2025

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.

This calibration is carried out by using Standard Operating Procedures (S.O.P.) provided by Elitech Group, shown in the attachment.

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

Calibration carried out on site by

Signature & Stamp

Name of Engineer: MR. Shivam Yavan

POCT Services Pvt. Ltd

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

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Validation / Calibration - SOP

Selectra Pro S/ Pro M

Name of the Customer:

Pathology Lab, Combined/TB Hospital

Address: Thakurganj, Lucknow, UP

Sr No: 16-4033

Status: Warranty/ AMC

Validation & Preventive Maintenance

Power Supply

Measure Input power Supply Voltage: 228V (230 V AC ± 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)

ho 340nm ho405nm ho 505nm ho 546 nm ho 578 nm ho 620 nm ho 660 nm ho 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

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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 dirier 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.



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Hardware Calibration of Selectra Pro S/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	Lamp Abs Obtained					
3.57Abs	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.

Note:

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
(Wavelength)				Action
340	0.1 - 3.2	2.91	OK	Not required
405	0.1 - 2.6	1.94	OK	Not required
505	0.1 - 2.6	1.10	OK	Not required
546	0.1 - 2.6	1.02	OK	Not required
578	0.1 - 2.6	0.88	OK	Not required
620	0.1 - 0.9	0.47	OK	Not required
	0.1 - 0.7	0.28	OK	Not required
660	0.1 - 0.7	0.37	OK	Not required
700				
Over all	Filter gains within acceptable range. No replacement required.			
Remarks				

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

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>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" and 10x "Check-R" as QC samples.

-	Test	Target Value	Target CV%	Mean Result	CV[%]	
-	Check-S	0.08(0.060-0.100)	<1%	0.077	0.689	

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) Pippetor 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: 100 100 100 100 Reagent syringe:	Yes Yes Yes	Pass Pass Pass

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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/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.

Pippetor 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(µ L) (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 Sample syringe	250*4=1000	4000	Yes	Pass	
500	6*4=24	476	Yes	Pass	

Note- Calibrated pipette of Device ID:16308037 was used for volume calibration. Calibration certificate of the pipette is attached herewith.

> Temperature Calibration

Select Temperature in Service Menu. It should be 37 °C \pm 0.2 °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 Temp. offset					
Biopiayou romp		•	Required	Value	
	37 °C ± 0.2 °C	35.1 °C	No	0 °C	
Remarks Temp. Calibration OK. No offset required.					

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>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 AMC/Warranty. Hardware Calibration of Lamp, Filters, Temperature & Aspiration (Pump) has been done successfully.

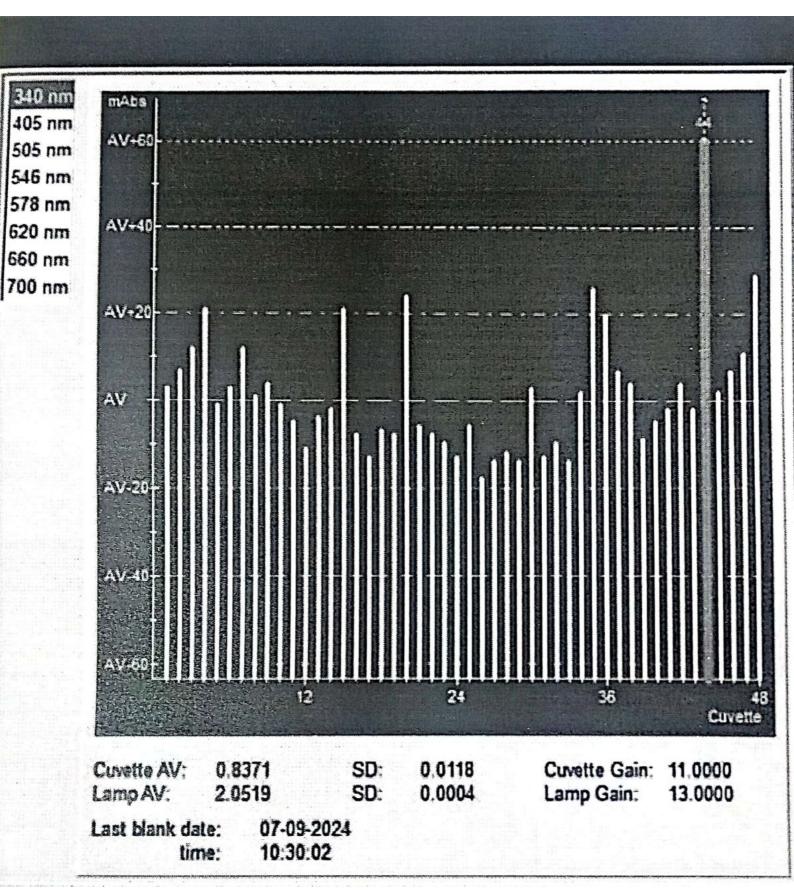
Please perform the standardization / Calibration and verify by evaluating controls before processing patient samples.

Next Calibration is due on -06/09/2024

Signature of Service Engineer

Place: 7-9-24 Date. Lucknow

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07-09-2024 HOST 10:11:03 Standard Req Aray buffer: 0/1 Lamp adjustment Lamp Cuvette 04:47 absorbance absorbance Please wait for 5 minutes (see above clock) to let the lamp stabilize. Loosen the screw with the spring. 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. Also, check for the first 5 filters, if the absorbance has a decreasing "profile". 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. When finished, tighten the screw with the spring. 2 8900

