

CIN: U74120UP2010PTC042528 Corporate Office: 101A-102B, First Floor, Diamond 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 Custon	ner: <u>Pathology Lab, Combined/TE</u>	3 Hospital
Lucknow, l	JP	
City -Lucknow	State- Uttar Pradesh	PIN: 226003
Name of Instrument: Select	tra Pro-M	
Type: Random Access Full	y 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

MR. Shivam Yadau Name of Engineer:

POCT Services Fvt. Ltd

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

REGISTERED OFFICE: 280/9-Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA DELHI NCR : 20A, Basement Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi, INDIA Tel.: 011-45577407, E-mail : poctdelhi@poctservices.com, Website : www.poctservices.com





CIN: U74120UP2010PTC042528
Corporate Office: 101A-102B, First Floor,
Diamond Tower, Udalyganj, Cantt Road,
Lucknow-226001. Uttar Pradesh. INDIA
Tel.: +91 522 4009779
E-mail: poctiko@rediffmail.com

### 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  $\pm$  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)

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

REGISTERED OFFICE: 280/9-Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA
DELHI NCR: 20A, Basement Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi, INDIA
Tel.: 011-45577407, E-mail: poctdelhi@poctservices.com, Website: www.poctservices.com





GIN: U74120UP2010PTC042528
Corporate Office: 101A-102B, First Floor,
Dismond Tower, Udalyganj, Cantt Road,
Lucknow-226001. Uttar Pradesh. INDIA
Tel.: +91 522 4009779
E-mail: poctiko@rediffmail.com

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.



GIN: U74120UP2010PTC042928
Corporate Office: 101A-102B, First Floor, Diamond Tower, Udaiygan), Cantt Road, Lucknow-226001, Ultar Pradesh, UNDIA Tel. : +91 522 4009779

E-mail ; postiko@rediffmail.com

# 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					
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.

REGISTERED OFFICE: 280/9-Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA
DELHI NCR: 20A, Basoment Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi, INDIA
Tel.: 011-45577407, E-mail: poctdelhi@poctservices.com, Website: www.poctservices.com





CIN: U74120UP2010PTC042528
Corporate Office: 101A-102B, First Floor, Diamond Tower, Udalygan), Cantt Road, Lucknow-226001, Uttar Pradesh, INDIA Tel.: +91 522 4009779 E-mail: poctlko@rediffmail.com

# > 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.

and contains	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)

be dispensed (µI)	spensed volume checked and found complying as full stroke volume? (Yes/No)	
Sample Syringe:  100 100 100 Reagent syringe:	Yes Yes Yes	Pass Pass Pass

REGISTERED OFFICE: 280/9-Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA DELHI NCR: 20A, Basement Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi, INDIA Tel.: 011-45577407, E-mail: poctdelhi@poctservices.com, Website: www.poctservices.com





POCT SERVICES PVT. LTD
CIN: U74120UP2010PTC042528
Corporate Office: 101A-102B, First Floor,
Diamond Tower, Udaiyganj, Cantt Road,
Lucknow-226001. Ultar Pradesh. INDIA
Tel.: +91 522 4009779 E-mail: poctiko@rediffmail.com

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)		
Reagent syringe:					
7000	0.5044 1000	1000		D	
5000	250*4=1000	4000	Yes	Pass	
Sample syringe:					
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  $^{\circ}$ C  $\pm$  0.2  $^{\circ}$ 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		•	Required	Value	
°C	37 °C ± 0.2 °C	35.1 °C	No	0 °C	
Remarks Temp. Calibration OK. No offset required.					

REGISTERED OFFICE: 280/9-Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA .HI NCR : 20A, Basement Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi Tel.: 011-45577407, E-mail: poctdelhi@poctservices.com, Website: www.poctservices.com





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

E-mail: poctiko@rediffmail.com

# >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 -06/09/2025

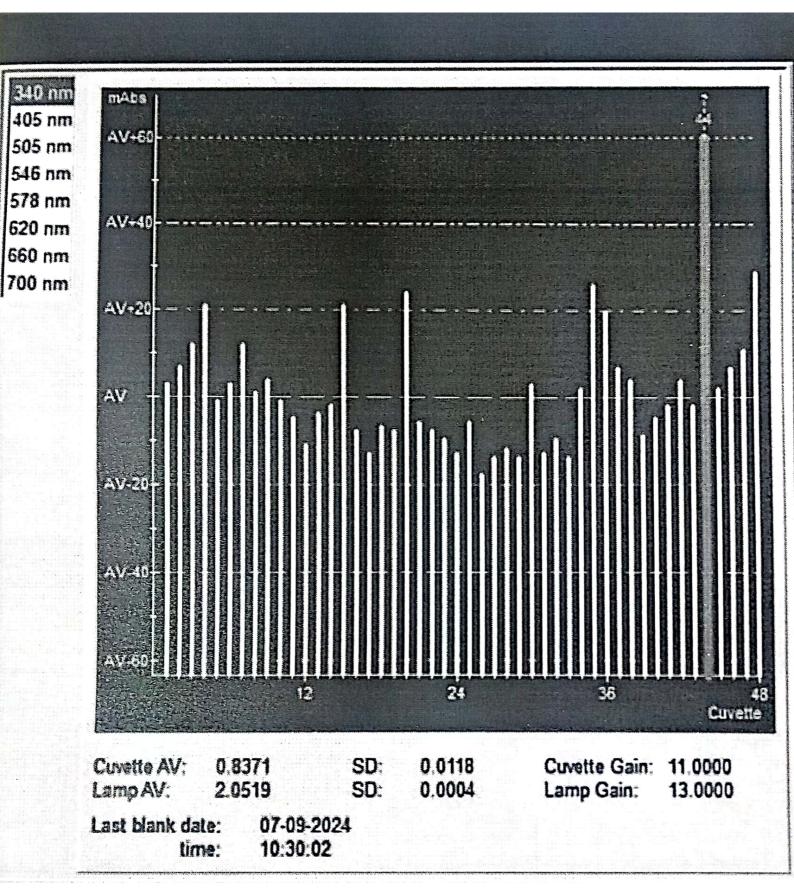
Signature of Service Engineer

Place: Lucknow
Date. 210124

7/9/24



REGISTERED OFFICE: 280/9-Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA
DELHI NCR: 20A, Basement Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi, INDIA
Tel.: 011-45577407, E-mail: poctdelhi@poctservices.com, Website: www.poctservices.com



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 3.5778

