

298-281, Transport Nagar, Kanpur Road, Adjacent Transport Nagar Metro Station, Lucknow-226023, UP. INDIA

Tel.: 0522-2433023

E-mail: poctlko@poctservices.com

www.poctservices.com

Certificate of Calibration

Name & Address of Customer: _	Pathology Lab, Sa	adar Hospital, Sasaram
Rohtas, Bihar		
City -Sasaram	State- Bihar	PIN: 821115

Name of Instrument: Selectra Pro-M

Date: ___01-03-2023_____

Type: Fully Automatic Biochemistry Analyser

Serial No: 22-4128

Calibration Date: 01-03-2023

Next Calibration Due: 29-02-2024

This is to certify that above mentioned instrument has been validated of hardware calibration for filters, aspiration and temperature & Imp according to the procedure 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

Name of Engineer - Mr. Sushil Pandey

POCT Services

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

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Selectra Pro-M

Name of the Customer: Pathology Lab, Sadar Hospital, Sasaram, Rohtas, Bihar

Address: Rauja Road, Rohtas, Bihar

Sr No: 22-4128

Status: Warranty/ AMC Validation & Preventive Maintenance

Power Supply

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

Check Earthing: 2V (0-5V)

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)

 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

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Valve: Select the desired position through the service WYON ectservices.com

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.

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 change.





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Hardware Calibration of Selectra Pro S/Pro M

> Lamp Calibration/Alignment

Lamp Adjustment :-

- Flush the system with distilled water by doing Rotor Blank.
- 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 alignment Data @ 340 nm wavelength			
Lamp Abs Obtained	Acceptable Range	Alignment	Remarks
3.393 Abs	1.800 to 4.000 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	2.40	OK	Not required
405	0.1 - 2.6	1.41	OK	Not required
505	0.1 - 2.6	0.71	OK	Not required
546	0.1 - 2.6	0.55	OK	Not required
578	0.1 - 2.6	0.44	OK	Not required
620	0.1 - 0.9	0.39	OK	Not required
660	0.1 - 0.9	0.37	OK	Not required
700	0.1 - 0.7	0.30	OK	Not required
Over all	Filter gains within	acceptable range	. No replacement	nt required.
Remarks				

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

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REGISTERED OFFICE:
280/9, Kha, Blunt Square,
Lucknow-226004.
Uttar Pradesh, INDIA
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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 5x "Check-S" and 5x "Check-R" as QC samples.

Test	Target Value	Target CV%	Mean Result	CV[%]
Check-S	0.080(0.060-0.100)	≤2%	0.071	1.80
Check-R	1.750(1.500-2.000)	≤2%	1.532	0.30

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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Pippetor	Calibration Data using distilled Water	
Full stroke volume to be dispensed (µI)	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/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.

P	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(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 syring	ge:				
5000 μl	$300 \mu l * 3 test = 900 \mu l$	4100 μl	Yes	OK	
Sample syringe:					
300 μl	$30 \mu l * 3 test = 90 \mu l$	210 μl	Yes	OK	





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> Temperature Calibration

Select Temperature in Service Menu. It should be 37 $^{\circ}\text{C} \pm 0.2 \,^{\circ}\text{C}$ 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	Displayed Temp Ref. Range Temp. Indicator Temp Offset Temp. offset				
Required Value					
37°C	37 °C ± 0.2 °C 35.2 °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.

- 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.

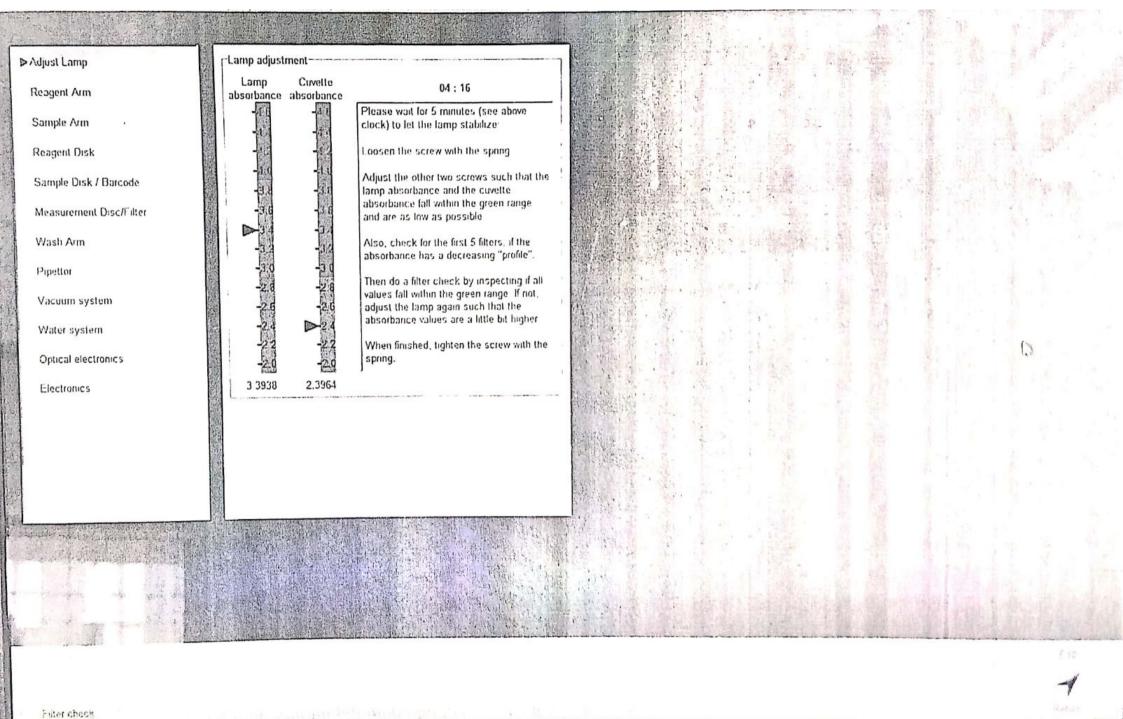
Next Calibration is due on -29/02/2024

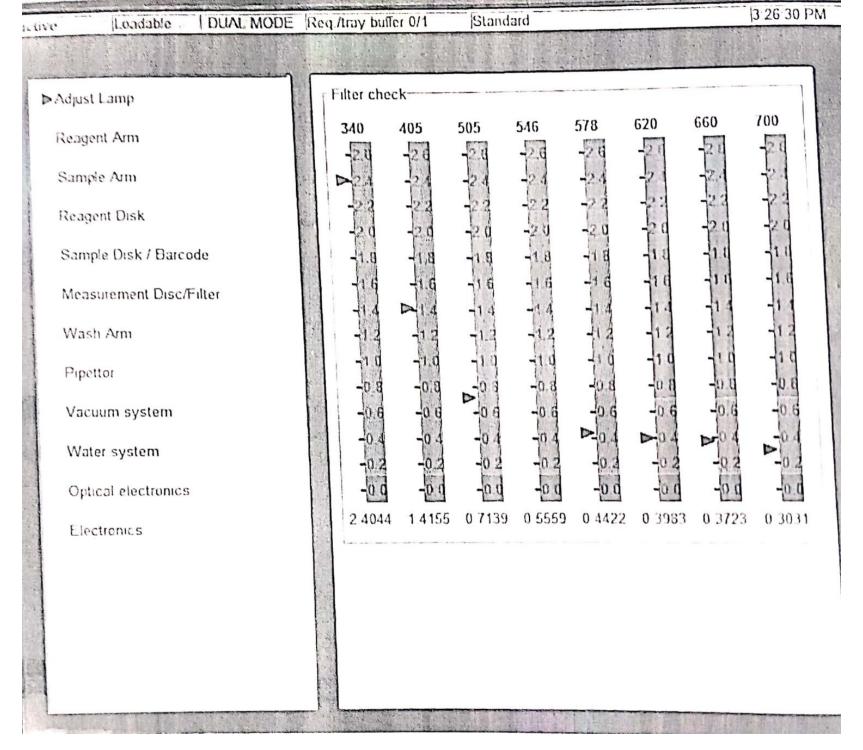
Signature of Service Engineer

Place: Sosarom Date. 01-03.2023

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

Land of the second		Tor ac	37-48
1-12		25-36	
0.53207	0.55762	0.52410	0.49181
0.51252	0.52726	0.51613	0 52713
0.53382	0.54358	0.52814	0.51613
0.51366	0.52661	0.56590	0.51389
0.50525	0.51263	0.52989	0 50289
0.51243	0.56754	0.53209	0.48815
0.50731	0.53476	0.50657	0.49497
0.55376	0.52349	0.50770	0.50626
0.50316	0.51093	0.50810	0.52179
0.51086	0.52991	0.50740	0.51030
0.51717	0.51748	0.50826	0.51450
0.56236	0.58509	0.50931	0.53920

 Cuvette AV:
 0.5216
 SD:
 0.0203
 Cuvette Gain:
 8.0000

 Lamp AV:
 1.8498
 SD:
 0.0001
 Lamp Gain:
 12.0000

Last blank date: 3/1/2023

__time: 11:59:05 AM

