

298-281, Transport Nagar, Kanpur Road, Adjacent Transport Nagar Metro Station, Lucknow-226012, UP, INDIA

Tel.: 0522-2433023

E-mail: poctlko@poctservices.com

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01 October 2019 Date:

Certificate of Calibration

Name & Address of	of Customer: Patholog	y Lab, District Hospital
City: Agra	State: <u>U.P.</u>	PIN:
Phone		
Name of Instrume	nt: Selectra PRO M	
Type: Random Ac	cess Fully Automatic B	iochemistry Analyser
Serial No: <u>16-406</u>	1	
Calibration Date:	01/10/2019	
Next Calibration D	Due: 30/09/2020	
Filters Aspiration	nat above said instrume i, and Temperature & inical Systems, France.	nt has been validated of hardware calibration fo Lamp according to the procedures provided b
This calibration is by Elitech Group,	carried out by using Standard shown in the attachme	andard Operating Procedures (S.O.P.) provided nt.
These instrument	s conform to CE-IVD &	EU directives of use.
Calibration carrie	d out on site by: - Jay P	rakash
Certificate Issued Name of Enginee Sunil Kumar Yad	er:	SM) CELL

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

Sr. Application Specialist

POCT Services.

BIHAR :

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Validation / Calibration - SOP

Selectra ProM

Add	ame of the Customer: Pathology	Lab, District Hospital
	r No: 16-4061 tatus: Warranty/AMC	Validation & Preventive Maintenance
A	Power Supply	
	Measure Input power Supply	Voltage: 230 V (230 V AC ± 10 V)
	Check Earthling: 3\	/ (0 - 5 V)
	Ambient temperature: 23	°C (10-35°C)
	Appearance : Clean	(Clean/Dusty)
>	Bellow Pumps: Open the pump a	ssays and clean it thoroughly.
\	Analyser Control Filter: Select the desired pos Filter wheel sets the desired F	ition through the Service menu. Filter: Yes
	Filter Status: Needs replaced ρ 340nm ρ 405nm ρ 505nm	ment (Yes/ NO) թ546 nm թ578 nm թ620 nm թ660 nm թ700 nm
	Note: Filter checked status w	as ok no need of replacement.
	Temperature: Select the des Temperature OK: Yes	ired Options through the Service mode.
	Pump: Select the desired vol Verify by aspirating the same	ume through the Service mode 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 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

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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	
3.8250 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 (Wavelength)	Gain Range	Gain Achieved	Remarks	Corrective Action
340	0.1 - 3.0	2.5790	OK	Not required
405	0.1 - 2.6	1.5923	OK	Not required
505	0.1 - 2.6	0.7865	OK	Not required
546	0.1 - 2.6	0.6862	OK	Not required
578	0.1 - 2.6	0.6025	OK	Not required
620	0.1 - 0.7	0.5281	OK	Not required
660	0.1 - 0.7	0.5096	OK	Not required
700	0.1 - 0.7	0.5470	OK	Not required
Over all Remarks	Filter gains with	in acceptable range	. No replaceme	nt required.

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" or 10x "Check-R" as QC samples.

Test	Target Value	Target CV [%]	Mean Result	CV [%]
Check-S	0.08(0.060-0.100)	<2%	0.088	0.598
Check-R	1.75(1.500-2.000)	<2%	1.715	0.917

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)
- Collect the dispensed water. Check the dispensed volume using calibrated pipette. (For Pro M only)

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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	OK
100	Yes	OK
100	Yes	OK
Reagent syringe:		
1000	Yes	OK
1000	Yes	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.

Pipp	etor Calibration Data	using distilled	Water	
Measured Volume taken in sample cup(μL)	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 μL	300 μL X 3 test =900 μL	4100 µL	Yes	OK
Sample syringe:				
300 µL	30 μL X 3 test =90 μL	210 µL	Yes	OK



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> 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.

	Tempe	rature Calibration	Data	
Displayed Temp	Ref. Range	Temp. Indicator	Temp Offset Required	Temp. offset Value
37° C	37 °C ± 2 °C	36.8 ° C	No	0 °C
Remarks	Temp. Calibrati	on OK. No offset red	duired.	



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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 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: 30 September 2020.

Certificate Issued by: - Sunil Kumar Yadav

Place: Date:

07.11.204

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BIHAR :









