

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

Tel.: 0522-2433023

E-mail: poctlko@poctservices.com

www.poctservices.com

Date: 27 Jan 2020

Certificate of Calibration

Name & Address of Customer: Rani Laxm	ibai Combined Hospital
A Block Rajajipuram Lucknow	
City: Lucknow State: U.P	PIN: 226017
Phone	E-Mail
Name of Instrument: Selectra PRO M	
Type: Random Access Fully Automatic Bio	chemistry Analyser
Serial No: <u>16-4110</u>	
Calibration Date: 27/01/20	
Next Calibration Due: 26/01/21	
This is to certify that above said instrument Filters, Aspiration, and Temperature & Lat Elitech Group Clinical Systems, France.	has been validated of hardware calibration for mp according to the procedures provided by
This calibration is carried out by using Stand by Elitech Group, shown in the attachment.	dard Operating Procedures (S.O.P.) provided
These instruments conform to CE-IVD & EU	J directives of use.
Calibration carried out on site by	
Signature & Stamp Name of Engineer: Sunil Kumar Yadav Sr. Application Specialist POCT Services.	OF THE STATE OF TH

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



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Validation / Calibration - SOP

Selectra ProM

Name of the Customer : Rani La	Name of the Customer : Rani Laxmibai Combined Hospital					
Address: A Block Rajajipuram Lu	icknow U. P.					
Sr No: 16-4110						
Status : Warranty/AMC	Validation & Preventive Maintenance					
Power Supply						
Measure Input power Supp	oly Voltage:229_V (230 V AC ± 10 V)					
Check Earthling: 2.4	_V (0 - 5 V)					
> Ambient temperature: 20	_° C (10 - 35 ° C)					
> Appearance : Clean	(Clean/Dusty)					
> Bellow Pumps: Open the pump	assays and clean it thoroughly.					
Analyser Control Filter: Select the desired pos Filter wheel sets the desired	sition through the Service menu. Filter: Yes					
Filter Status: Needs replace ρ 340nm ρ 405nm ρ 505nm	ement (Yes/ NO) ρ 546 nm ρ 578 nm ρ 620 nm ρ 660 nm ρ 700 nm					
Note: Filter checked status v	vas ok no need of replacement.					
Temperature: Select the des	ired Options through the Service mode					

REGISTERED OFFICE : 280/9, Kha, Blunt Square, Lucknow-226004. Uttar Pradesh, INDIA

Temperature OK: Yes

E-mail: poctlko@poctservices.com Website : www.poctservices.com DELHI NCR: 20A, Basement Floor, Main Shivaji Marg, Najafgarh Road, Near Moti Nagar Police Station, New Delhi-110015, Delhi, INIDA Tel.: 011-45577407 E-mail: poctdelhi@poctservices.com

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 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. 1.
- 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	Remarks		
3.9021 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	2.8799	OK	Not required
405	0.1 - 2.6	1.8534	OK	Not required
505	0.1 - 2.6	0.8462	OK	Not required
546	0.1 - 2.6	0.7348	OK	Not required
578	0.1 - 2.6	0.6328	OK	Not required
620	0.1 - 0.7	0.5371	OK	Not required
660	0.1 - 0.7	0.5354	OK	Not required
700	0.1 - 0.7	0.5737	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%	0.087	0.674
Check-R	1.75(1.500-2.000)	<2%	1.734	0.346

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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Pipettor	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	OK
100	Yes	OK
100	Yes	OK
Reagent syringe:		1.00
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) (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)	
Reagent syringe	:	NA		
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 I	Data	
Displayed Temp	Ref. Range	Temp. Indicator	Temp Offset Required	Temp. offset Value
37° C	37 °C ± 2 °C	36.7° C	No	0 °C
Remarks	Temp. Calibrati	on OK. No offset red	quired.	

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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: 26 Jan 2021.

Signature of Application Specialist

Place:

Date.

Lucknone 27 Jan 2021.

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