

Date:04/02/2020

#### **POCT SERVICES**

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

## Certificate of Calibration

Name & Address of Customer: <u>District Women Hospital</u> , <u>Pratapgarh</u>
City: Pratapgarh State: U.P. PIN:
Phone E-Mail
Name of Instrument: Selectra PRO M
Type: Random Access Fully Automatic Biochemistry Analyser
Serial No: <u>16-4117</u>
Calibration Date: <u>04/02/20</u> 20
Next Calibration Due: 03/02/2021
This is to certify that above said instrument has been validated of hardware calibration for Filters, Aspiration, and Temperature & Lamp according to the procedures provided be 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:- Ankit Tiwari
Signature & Stamp Sunil Kumar Yadav

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

Sr. Application Specialist

POCT Services.

REGISTERED OFFICE:
280/9, Kha, Blunt Square,
Lucknow-226004.
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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 BIHAR: Malti Villa, Janak Kishor Road, Kadam Kuan, Patna-800003, Bihar, INDIA E-mail: poctpatna@poctservices.com



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### Validation / Calibration - SOP

#### Selectra ProM

Name of the Customer: District	Name of the Customer: District Women Hospital , Pratapgarh				
Address: Pratapgarh , U. P.					
Sr No: 16-4117					
Status : Warranty/AMC	Validation & Preventive Maintenance				
> Power Supply					
Measure Input power Sup	opły Voltage: 229_V (230 V AC ± 10 V )				
Check Earthling: 3	V ( 0 - 5 V)				
> Ambient temperature: 23	°C (10-35°C)				
> Appearance : Clean	_ (Clean/Dusty)				
> Bellow Pumps: Open the pum	p assays and clean it thoroughly.				
Analyser Control Filter: Select the desired p Filter wheel sets the desire	osition through the Service menu. d Filter: <b>Yes</b>				
Filter Status: Needs repla	cement (Yes/ NO) m p 546 nm p 578 nm p 620 nm p 660 nm p 700 nm				

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Note: Filter checked status was ok no need of replacement.

Pump: Select the desired volume through the Service mode

Verify by aspirating the same Quantity: OK

Temperature OK: Yes

Temperature: Select the desired Options through the Service mode.

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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   Acceptable Range   Alignment   Days of the Company   Days of the Compan						
Lamp Aus Obtained	Acceptable Range	Alignment	Remarks			
<u>3.8833</u> 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	2.7491	OK	Not required
405	0.1 - 2.6	1.7933	OK	Not required
505	0.1 - 2.6	0.9591	OK	Not required
546	0.1 - 2.6	0.8524	OK	Not required
578	0.1 - 2.6	0.7819	OK	Not required
620	0.1 - 0.7	0.7310	OK	Not required
660	0.1 - 0.7	0.6841	OK	Not required
700	0.1 - 0.7	0.6949	OK	Not required
Over all Remarks	Filter gains within	acceptable range	. No replacement r	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	-
Check-S	0.08(0.060-0.100)	<2%	0.098	0.548
Check-R	1.75(1.500-2.000)	<2%	1.708	0.553

#### 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 (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.

Pippetor 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:		-		
	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.

Temperature Calibration Data					
Displayed Temp		Temp. Indicator		Temp. offset Value	
36.7° <b>C</b>	37 °C ± 2 °C	36.7° <b>C</b>	No	0 °C	
Remarks	Temp. Calibration	n 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.

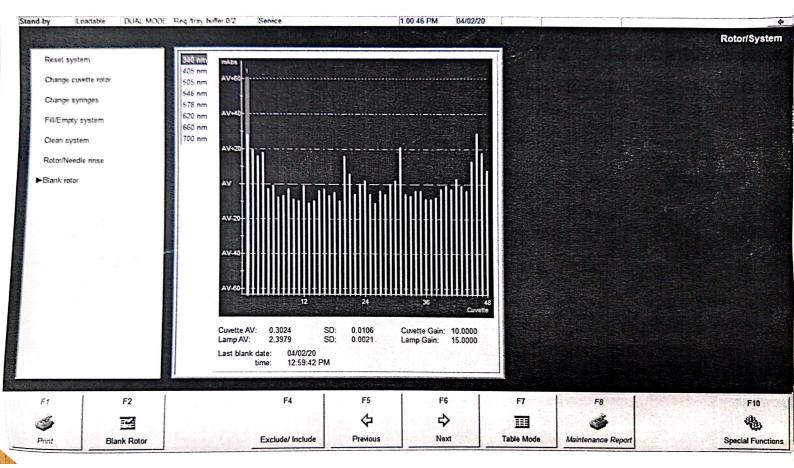
Please perform the standardization / Calibration and verify by evaluating controls before processing patient samples.

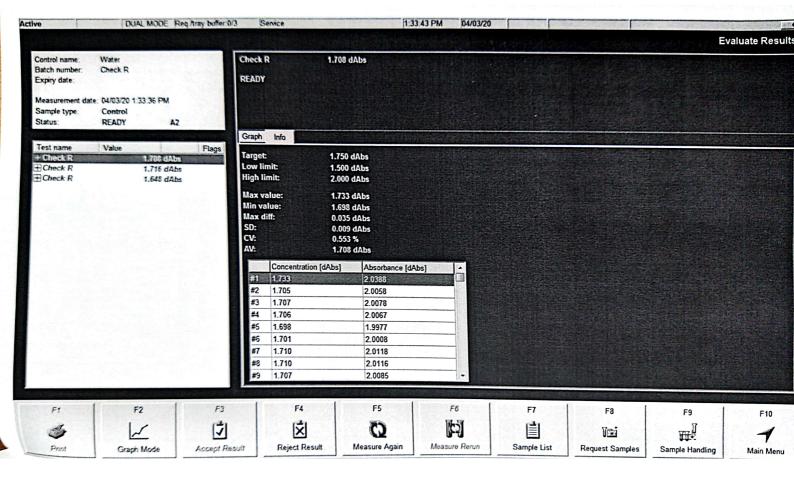
Next Calibration is due on: 03/02/2021

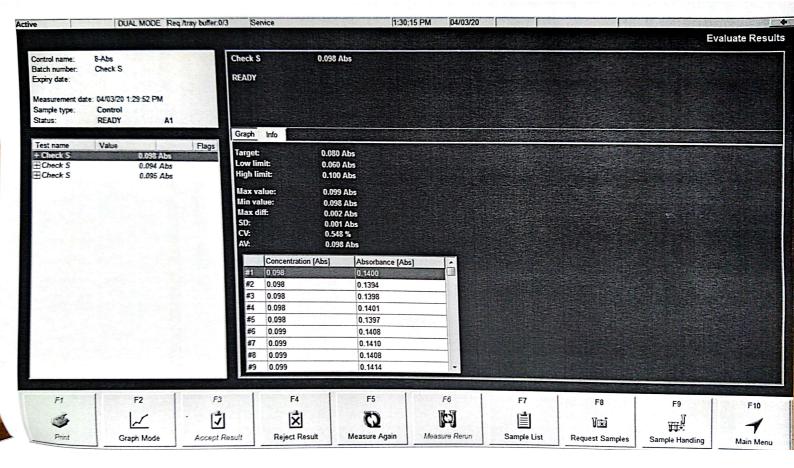
Signature of Application Specialist: - Sunil Kumar Yadav

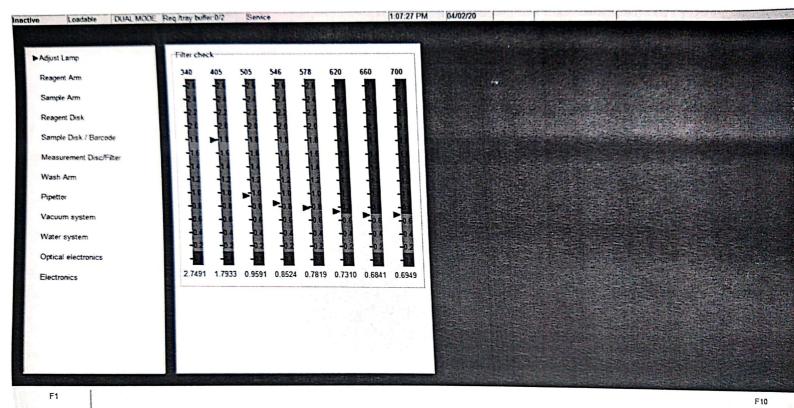
Place:

Date.





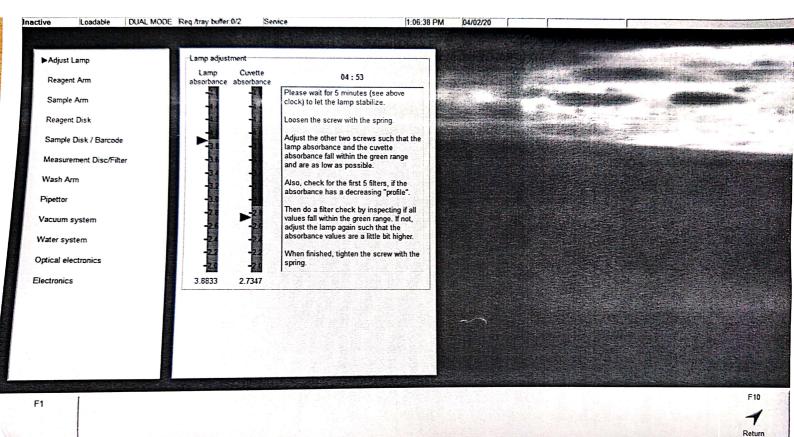




Lamp adjustment

Scanned with CamScanner

Return



Filter check