

## CALIBRATION CERTIFICATE

CERTIFICATE NO : OCD/SHLP/01  
CALIBRATED FOR : SHLP PATHOLOGY LABORATORY  
LOCATION : AHMEDABAD

CALIBRATION DATE : 12/10/2022  
CALIBRATION DUE : 12/04/2023  
CALIBRATED AT SITE : BIOCHEMISTRY

### SPECIFICATION OF INSTRUMENT :

INSTRUMENT	MODEL	SERIAL NO
VITROS CHEMISTRY SYSTEM	VITROS 4600	46000452
	J NUMBER	J46000452

### Specification of Software:

SOFTWARE NAME	SOFTWARE VERSION	UPDATED ON
Qnx OS	V3.7.2	2022

*The Reference of Calibration.* The performance/Adjustments of various subsystems has been calibrated/tested by trained site engineer with pre-designed /calibrated tools provided for the particular subsystems by the company.

### Preventive Maintenance Procedure Checklists:

Subsystem Name Adjusted/Verified & Annexure No

#### 1. Slide Supply 1& 2

Software Adjustment:

- \* Supply 1 (Outer) Stopping At Dispense
- \* Supply 2 (Inner) Stopping At Dispense
- \* Supply 1 & 2 Plunger Position
- \* Dispense Blade At Tip Locator Position
- \* Dispense Blade At PM Ring Depth
- \* CM Tip Locator X, Y & Z
- \* Leak Pad X & Z
- \* Slide Align Guide



#### 2. Reagent Supply 3

Software Adjustment:

- \* Secondary Metering to Supply 3 Outer & Inner Reagent Aspiration
- \* Supply 3 Bottom
- \* Supply 3 Barcode reader & Load position
- \* Pack Opener Theta & Z Position
- \* Secondary Metering Leak Pad X & Z



#### 3. Tip Processing Center

- \* Versa Tip Loading Position
- \* Versa Tip Ring to Primary Metering Pickup X & Z
- \* Versa Tip Ring to Secondary Metering Pickup X & Z
- \* Primary Metering to Primary Tip Sealer X,Y & Z
- \* Primary Metering to Cuve tip Dropoff X & Z



- \* Secondary Metering to Cuvetip Aspirate X & Z
- \* CuveTip Discard Position Theta & ARM
- \* Micro Sensor CuveTip Position
- \* Micro Sensor CuveTip Lifter Z
- 4. Sample Supply
- \* Triflex Sample Position X
- \* Stat Sample Position X
- \* Primary Sample Position X
- 5. Primary Metering
- Software Adjustment:
- \* VersaTip Ring Truck X & Z
- \* Secondary Tip Sealer Truck X & Z
- \* TipLocator Truck X & Z
- \* Primary Tip Sealer X & Z
- \* Cuvette Incubator Truck X & Bottom
- 6. ERF Metering
- Mechanical Adjustment:
- \* Metering Dispense Position Center, Initial
- \* Dispense Position Verification
- 7. Micro Slide Incubator
- Mechanical Adjustment:
- \* CM/RT Ring Belt Tension
- \* V- Three Wheel Alignment
- Software Adjustment:
- \* PM Ring Stopping Position
- \* Dispense Blade to PM Ring Depth
- \* CM/RT Ring Stopping Position
- \* Depth of Insert Blades, CM & RT
- \* RT Depth Of Discard Blade
- \* WF Shuttle Home & Discard
- \* WF Re-Insert Blade
- \* Slide Align Guide
- 8. Reflectometer Assembly
- Mechanical Adjustment:
- \* Continuity Test
- Software Adjustment:
- \* Read Sync
- \* Correction Factors
- 9. Wash Fluid Metering
- \* WF Shuttle Home & Z
- \* WF Metering Theta
- \* Primary Well Theta
- \* Leak Pad Z
- \* WF Re-insert Blade
- \* WF Shuttle Discard Position

10. Cuvette Supply   
\* Cuvette Rack  
\* Transport Arm at Row Retrieve
11. MicroTip Supply   
\* Secondary Metering MicroTip Pickup X  
\* Secondary Metering MicroTip Pickup Z
12. Secondary Metering   
\* VersaTip Ring Truck X & Z  
\* Secondary Tip Sealer Truck X & Z  
\* Cuvette Tip Aspirate Truck X & Z  
\* Cuvette Incubator Truck X & Bottom  
\* Micro Tip Pickup Truck X,Y & Z  
\* Supply 3 Outer , Inner & Bottom  
\* Leak Pad Truck X & Z
13. Cuvette Incubator   
\* Transport Arm at Row Retrieve  
\* Transport Arm to Incubator Slot X, Y  
\* Transport Arm to Pickup, Read, Discard  
\* Primary Metering to Cuvette Incubator & Cuvette Bottom  
\* Secondary Metering to Cuvette Incubator & Cuvette Bottom
14. Photometer   
Software Adjustment:  
\* Transport Arm at Read  
\* Water Blanking
15. MicroSensor   
\* Micro Sensor CuveTip Position  
\* Micro Sensor CuveTip Lifter Z
16. Master Computer   
\* System Full Backup

CALLIBRATED BY



*Demento*

Jimish Sarvaiya(Senior Territory Manager Service)

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**NOTE:**

1. This certificate refers only to the particular item submitted for calibration.
2. The calibration result reported in the certificate is valid at the time of and under the stated condition of the measurement.