Ortho Clinical Diagnostics India Private Limited

CALIBRATION CERTIFICATE

CERTIFICATE NO: OCD/MTH/5601

CALIBRATED DATE: 26/07/2022

CALIBRATED FOR: MEDICAL TRUST HOSPITAL

CALIBRATION DUE: 25/01/2023 CALIBRATED AT: LABORATORY

LOCATION : Косні SPECIFICATION OF INSTRUMENT:

INSTRUMENT	MODEL	SERIAL NO
VITROS INTEGRATED SYSTEM	VITROS 5600	56001407

Specification of Software:

SOFTWARE NAME	SOFTWARE VERSION	UPDATED ON
Onx OS	V3.7.1	APR 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
1. Sample Supply Inspection	\checkmark
2. Sample Metering	
2.1. MicroSlide Metering	\checkmark
* Versa Tip Pickup X, Y & Z	
* Versa Tip Eject X, Y & Z	
* Sample & Stat Tray X,Y & Z Position	
* Micro Slide CM/RT Tip Locator X, Y & Z	market saids
* Tip Sealer X, Y & Z	
* Sample Metering Leak Test	
2.2. Micro Immunoassay Metering	\checkmark
* Versa Tip Pickup X, Y & Z	
* Versa Tip Eject X, Y & Z	
* Sample & Stat Tray X, Y & Z Position	
* Micro Well & Micro Tip Sample Dispense	
* Tip Sealer X, Y & Z	
* Cuvette Incubator X, Y & Z	
* Micro Well Incubator Mapping	
* Sample Metering Leak Test	
3. ERF Metering & Wash Fluid Assembly	-
* Metering Center	✓ ·
* Leak Test	
* WF Shuttle Home & Z	
* WF Metering Theta	
* WF Re-insert Blade	
* WF Shuttle Discard Position	
4. Reagent Supply & Reagent Metering	\checkmark

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* Versa Tip Pickup	
* Supply 3 & 4 Pack Opener Theta & Z	
* Supply 3 Ring Aspirate Position	
* Supply 3 & 4 Z Mapping	
* Supply 4 Well Dispensers	
* Well Shuttle to Incubator	
5. Slide Transport	
* Dispense Blade Tip Locator	
* Dispense Blade Centering Position	
* PM Ring Depth	
6. Processing Center	
6.1. Micro Slide Incubator	V
* PM Ring Stopping	
* CM/RT Ring Stopping	
* Depth of Insert Blades, CM & RT.	
* Read Sync	
6.2. Micro Well Incubator	V
* Lift Pin Home Position (Inner, Middle, Outer & Read)	
* Inner, Middle & Outer rings Home Position	
* Outer & Middle Ring Well Drop	
* Micro Immuno Assay Metering X, Y & Z	
* Reagent Metering Dispense & Z (Outer & Middle)	
* Micro Well Incubator Shuttle to Inner & Read	4
* Micro Well Incubator Outer & Middle Ring Mapping	
* Read Lift Pin Measure	
* Theta for Preliminary & Final Well Wash	
* Station for Preliminary & Final Well Wash	
* Inner Ring Mapping (Preliminary & Final Well Wash)	
* Signal Reagent Dispense & Horizontal	
* Signal Reagent Station	
* Incubator Thermal calibration	
6.3. Cuvette Incubator	
* Transport Arm to Insulator Slat X X	
* Transport Arm to Incubator Slot X, Y	
7. Reflectometer Assembly	
*Slide Dynamic Test	\checkmark
* Continuity Test	
8. Fluid Supply	\overline{V}
* Pressure Regulator Calibration	
9. Well Wash Assembly	\checkmark
* Well Wash Dispense & Aspiration	
* Soak Volume Verification	r-1
10. Signal Reagent Assembly	V
* SR Dispense Calibration	
11. Luminometer	V
* Full Calibration (optional)	

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* IRS Calibration

12. Master Computer

- * Touch Screen Calibration
- * System Full Backup

The results of comparison are as follows:

SUBSYSTEM NAME	TEM NAME CALIBRATION ACCURACY		CORRECTION	
	RANGE	OBTAINED		
PREWELL WASH ASPIRATION	2.0ML-3.0ML	2.7ML	0.0ML/	
FINALWELL WASH ASPIRATION	2.0ML-3.0ML	2.7 ML	0.0ML	
PREWELL WASH DISPENSE	6.8ML-7.4ML	7.IML	0.1ML	
FINALWELL WASH DISPENSE	6.8ML-7.4ML	7.0ML	0.0ML	
SIGNAL REAGENT DISPENSE PUMP A	9.99ML-10.01ML	10.0ML	0.0MI	
SIGNAL REAGENT DISPENSE PUMP B	9.99ML-10.01ML	10.0MI	0.0Ml	

CALLIBRATED BY

CERTIFIED BY

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Mathew Abraham (Service Engineer)

Sherin Eapen (Zonal Manager -CTS)

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.