

Ortho Clinical Diagnostics

Unit/Plot No - 810, ILD Trade Centre,
Sector - 47, Sohna Road, Gurgaon -122001

T: +91 124 4014 832

To Whom It May Concern:

CALIBRATION CERTIFICATE

This is to certify that the system maintenance & calibration was performed on date 18th August 2021 for the machine, VITROS-250 Chemistry Analyzer, installed at Dr. B.Lal Clinical Laboratory, Alwar bearing Serial No. 27001297.

The calibration process includes optics calibration and the performance verification tests as per the manufacturer's procedures.
Validity: Six months for Optics Calibration.



RAVI RANJAN

Service Engineer

Ortho Clinical Diagnostics

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CALIBRATION REPORT

Name of Instrument : VITROS 250
Serial Number : 27001297
Installed at : Dr. B.Lal Clinical Laboratory Alwar
Date of Report : 18/08/2021

SECTION / TEST

RESULT

SAMPLE METERING

a. Leak Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
The Dispense Leak Rate must < 0.210 V dc	Pass
The read-to-read leak rate should be < 0.030 V dc	Pass

Hysteresis Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
The Maximum Hysteresis Value must be < 5.0 steps	Pass
Combined Hysteresis values of any 3 consecutive readings must be < 9.0 steps	Pass

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REFERENCE METERING

a. Leak Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
The Aspirate Value < 0.175 V dc	Pass
The Ambient Pressure must in range of 2.25–2.75 V dc	Pass
Consecutive reading should not fall > 0.030 V dc	Pass

b. Hysteresis Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
Mean Value of Hysteresis should be ≤ 5.0 V dc	Pass
Maximum Value of Hysteresis should be ≤ 10.0 V dc	Pass

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IMMUNO WASH METERING

a. Leak Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
The Aspirate Value < 0.175 V dc	Pass
The Ambient Pressure must in range of 2.25–2.75 V dc	Pass
Consecutive reading should not fall > 0.030 V dc	Pass

b. Hysteresis Test : PASS / FAIL

Mean Value of Hysteresis should be ≤ 5.0 V dc	Pass
Maximum Value of Hysteresis should be ≤ 11.0 V dc	Pass

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INCUBATOR

a. Pad Reflectance Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
Grand Mean Value must be in range of 0.75 – 0.99	Pass
Range must be ≤ 0.03	Pass

ELECTROMETER

a. Basic Mode Verification Test: PASS / FAIL

Parameters	Test 1	Test 2	Test 3	Test 4
Input	Test	Test	Test	Test
Source	Zero 0	Zero 0	Ref 1	Ref 1
Polarity	Neg 0	Neg 0	Neg 0	Neg 0
Ohm -	Low 0	High 1	Low 0	High 1
Ohm +	Low 0	High 1	Low 0	High 1
Read Type	One 0	One 0	One 0	One 0
Specifications	0.0 mv \pm 2.4mv	0.0 mv \pm 2.4mv	-200 mv \pm 8mv	-200 mv \pm 8mv

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REFLECTOMETER

a. IRIS Adjustment : PASS / FAIL

SPECIFICATIONS	OBSERVATION
Lamp Output range 3.5 to 9.0 across all Filters	Pass

b. Static Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
All “%CV*K” must be ≤ 18.0	Pass
All “SD Dark” must be ≤ 1.3	Pass

c. Interleaved Static Test: PASS / FAIL

SPECIFICATIONS	OBSERVATION
All “%CV*K” must be ≤ 18.0	Pass
All “SD Dark” must be ≤ 1.3	Pass

d. Dynamic Test : PASS / FAIL

SPECIFICATIONS	OBSERVATION
All “%CV*K” must be ≤ 18.0	Pass
All “SD Dark” must be ≤ 1.3	Pass

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