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 08 Feb 2021 for the machine, VITROS-250 Chemistry Analyzer, installed at Dr B Lal Clinical Laboratory, Alwar bearing <a href="Serial No.27001297">Serial No.27001297</a>

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

RoviRangan

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### **CALIBRATION REPORT**

Name of Instrument

VITROS 250

Serial Number

27001297

Installed at

,

mstaned at

apex Hospital

Date of Report

08/02/2021

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

b. 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

RaviRangan

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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. <u>Hysteresis Test</u>:

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

#### **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	
Consecutive reading should not fall > 0.030 V dc	Pass

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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

#### **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
	Low 0	High 1	Low 0	High 1
Ohm -	Low 0	High 1	Low 0	High 1
Ohm +	One 0	One 0	One 0	One 0
Read Type	0.0 mv ±	0.0 mv ±	-200 mv ±	-200 mv ±
Specification s	2.4mv	2.4mv	8mv	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

OBSERVATION
Pass
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
	PASS / FAIL

OBSERVATION
Pass
Pass

Ravi Rangan