

**Ortho Clinical
Diagnostic**

Unit/Plot No - 810, I.I.D Trade Centre,

TO WHOM SO EVER IT MAY CONCERN

This is to certify that the Preventive Maintenance & Calibration was performed on date 07-June-2022 for the machine, VITROS 7600 Integrated Diagnostic Analyzer Installed at **ESIC Medical College & Hospital, Faridabad** bearing

Serial No. J7600385

The system's calibration includes checking the reproducibility performance of the instrument as per the guidelines provided by the manufacturer.

Validity: 6 Months.



Ankush Verma
Service engineer
Ortho Clinical Diagnostics

CALIBRATION REPORT

Instrument : VITROS 7600
Serial Number : 17600385
Customer : ESIC Medical College & Hospital
Department : LABORATORY
Calibration Date : 7-June-2022
Calibration Validity : 6Months

Ortho Clinical Diagnostic

Unit/Plot No - 810, ILD Trade Centre,
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1. Well Wash

	Specifications	Observed Volume
Aspirated	2.0 ml - 3.0 ml	2.9 ml
Dispense	7.0 ml ml	7.0 ml

2. Signal Reagent

	Specifications	Observed Volume
Pump A	9.9 ml - 10.2 ml	10.0 ml
Pump B	9.9 ml - 10.2 ml	10.0 ml

3 Luminometer

	Specifications	Observed Volume
Luminometer Reference System	16,50,000 - 23,50,000	2027892
Incubator Reference System	16,50,000 - 23,50,000	2126880

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Unit/Plot No - 810, ILD Trade Centre,
Sector - 47, Sohna Road, Gurgaon - 122 001
T: +91 124 4014 832

SECTION/TEST

RESULT

SAMPLE METERING

a. Leak Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

b. Hysteresis Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

REFERENCE METERING

a. Leak Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

b. Hysteresis Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

Ortho Clinical Diagnostics India Private Limited

Registered Office: 403, Leela Business Park , Andheri Kurla Road, Andheri East, Mumbai - 400059 | T: +91 22 6787 9300 | CIN: U51397MH2015FTC262650

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IMMUNO WASH METERING

a. Leak Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

b. Hysteresis Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

INCUBATOR

a. Pad Reflectance Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

ELECTROMETER

a. Basic Mode Verification Test: PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

REFLECTOMETER

Static Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

Interleaved Static Test: PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

Dynamic Test : PASS /FAIL

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

OPTICS: CORRECTION FACTOR

SPECIFICATIONS	OBSERVATION
Automatic - set by software	PASS

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Quality Control Chart

PARAMETERS	PV1 RANGE	PV2 RANGE	01.06.2022		02.06.2022		03.06.2022	
			PV1	PV2	PV1	PV2	PV1	PV2
GLUCOSE	77.38 - 85.7mg/dL	273.6 - 292.5 mg/dL	83	281.8	83.6	285.1	84.5	290.8
UREA	35.20 - 40.32 mg/dl	104.2 - 116.2 mg/dL	39.7	114.6	39.3	114	40	115.9
CREATININE	0.728 - 1.048 mg/dL	4.785 - 5.345 mg/dL	0.93	5.09	0.92	5.12	0.94	5.22
URIC ACID	3.813 - 4.173 mg/dL	10.182 - 11.06 mg/dL	4.15	11.02	4.10	10.75	4.15	10.23
TBIL	1.058 - 1.378 mg/dL	13.98 - 15.82 mg/dL	1.289	15.141	1.349	15.263	1.357	15.253
AST	33.2 - 39.22 U/L	187.4 - 207.4 U/L	38.1	198.4	36.8	199	38.3	193
ALT	20.80 - 30.80 U/L	147.02 - 163.4 U/L	29.7	156.6	29.5	157.6	29.2	155
ALKP	75.48 - 89.48 U/L	327.7 - 391.7 U/L	82.7	360.2	77.6	345.9	82.2	376.9
TP	3.309 - 3.909 g/dL	6.340 - 7.020 g/dL	3.68	6.68	3.63	6.71	3.61	6.77
ALB	2.18 - 2.558 g/dl	4.035 - 4.475 g/dL	2.44	4.34	2.41	4.34	2.47	4.40
CHOL	143.2 - 160.5 mg/dL	247.32 - 271.3 mg/dL	155.5	266.6	153.3	261.6	155.6	265.1
TRIG	123.02 - 135 mg/dl	244.2 - 269.4 mg/dL	132.6	259.6	133.4	257.9	134.2	264.4
dHDL	48.28 - 54.52mg/dL	70.64 - 80.04 mg/dL	50.9	76.6	48.7	77.1	50.5	78.9
Na ⁺	117.9 - 123.5 mmol/L	144.9 - 150.5 mmol/L	122.7	147.6	120.6	149	122.6	148.9
K ⁺	2.871 - 3.271 mmol/L	5.254 - 5.894 mmol/L	3.03	5.39	3.05	5.47	3.07	5.50
CL ⁻	78.0 - 82.40 mmol/L	107.9 - 113.5 mmol/L	82.2	111.6	82.1	111.9	81.9	112.3
AMYLASE	71.40 - 98.60 U/L	255.8 - 324.2 U/L	82.4	294.8	78.4	290.3	80	295.6
Bc/DBIL	0.06 - 0.462 mg/dL	2.574 - 3.574 mg/dL	0.47	3.146	0.128	2.978	0.328	3.248
Ca ⁺	7.903 - 8.783 mg/dL	11.242 - 12.28 mg/dL	8.28	11.37	8.33	11.33	8.39	11.38
LIPASE	127.9 - 158.3U/L	598.6 - 655.4 U/L	155.1	650.2	152.4	650	154.4	645.7
Mg ⁺	1.843 - 2.123 mg/dL	3.920 - 4.320 mg/dL	2.06	4.24	2.06	4.28	2.1	4.31
PHOS	3.340 - 3.900 mg/dL	6.910 - 7.830 mg/dL	3.47	7.64	3.49	7.49	3.53	7.64

04.06.2022		06.06.2022		07.06.2022		08.06.2022	
PV1	PV2	PV1	PV2	PV1	PV2	PV1	PV2
85.2	286.7	82.1	290	289.6	79.5	79.8	281.3
40.2	114.3	39.5	115.7	114.1	38.3	40.3	115.2
0.96	5.19	0.92	5.18	5.13	0.85	0.92	4.95
4.15	10.81	4.08	10.84	10.86	3.94	3.93	7.77
1.301	15.353	1.374	15.078	15.300	1.335	1.150	14.993
38.5	187.8	33.4	189	33.8	195.6	39.1	205.9
29.2	155.6	28.1	156.1	29.2	157.6	29.6	161.8
85.8	369.5	75.5	361.6	363.5	75.6	74.4	344.3
3.70	6.64	3.60	6.61	6.69	3.55	3.56	6.56
2.47	4.34	2.33	4.33	4.22	2.32	2.34	4.20
156	264.6	154.7	263.9	269.3	147.9	147.9	258
132	261.4	127.3	261.2	261.2	124.7	126.6	254.8
53.4	77.8	50.7	72.5	51.2	75.5	52.7	75.9
124.2	148.8	121.7	149.6	149.0	118.8	118.9	145.5
3.12	5.47	3.18	5.78	5.68	2.92	3.03	5.58
82.2	112.2	80.9	113.0	111.8	78.5	78.4	110.1
79	293.5	80.7	288	285.8	80.8	79.8	280.9
0.119	3.073	0.091	2.988	3.029	0.138	0.183	3.830
8.43	11.48	8.18	11.59	8.32	11.7	8.02	11.29
152.7	649.1	146.4	653.8	648.2	138.3	145.3	609.8
1.99	4.31	2.01	4.30	2.1	2.02	1.86	4.37
3.57	7.61	3.45	7.58	7.46	3.62	3.55	7.30