



CERTIFICATE OF CALIBRATION/ VERIFICATION

Customer Name : INTEGRO HOSPITAL
Department : BIOCHEMISTRY
Model : Fully Automated Bio-chemistry Analyzer-EM 200
Serial Number : S200839
Calibration Date : 21.02.2023
Next Calibration due on or before : 20.02.2024
Calibrator Used: Multical Lot : 2206133A
Quality Control Used: ERBA NORM Lot:S062243,ERBA PATH Lot:S062244

This is to certify that the above mentioned instrument has been verified of calibration according to the procedures provided by the manufacturer in the reference manual.

The reference instruments used for value assignment are managed by the traceability systems with the manufacturer and these are traceable to international standards.

General Parameters:

Parameter	Measured Value	Acceptable Range	
Line Voltage	229 V	230 V +/- 5%	Pass
Logic Voltage	5.0 V	4.9 V to 5.1 V	Pass
Lamp Voltage	12.01 V	11.8 V to 12.2 V	Pass
Flow cell Temperature	37.0 deg	37 +/- 0.5	Pass
45 Cuvette blank value for all filter	Enclose valuesheet for all cuvette	Abs 0.02-0.2	Pass



Photometer Filter Gain Levels: Attached Instrument Print

s.no	Filter Value in nm	Filter Gain in mv	Acceptable Range of gain
1	340	468	200 mv to 800 mv
2	405	468	200 mv to 800 mv
3	505	487	200 mv to 800 mv
4	546	486	200 mv to 800 mv
5	578	471	200 mv to 800 mv
6	600	477	200 mv to 800 mv
7	660	447	200 mv to 800 mv
8	700	457	200 mv to 800 mv

Cellblanks Details for all Fiter:

s.no	Filter	Cell Blank range of 45 position Acceptable Range(0.03-0.2)	Pass/Fail
1	340	With in the range, Document Attached	Pass
2	405	With in the range, Document Attached	Pass
3	505	With in the range, Document Attached	Pass
4	546	With in the range, Document Attached	Pass
5	578	With in the range, Document Attached	Pass
6	600	With in the range, Document Attached	Pass
7	660	With in the range, Document Attached	Pass
8	700	With in the range, Document Attached	Pass

Transasia Bio-medical Limited

Nagaraju Sambarapu

Sr Application Specialist

TRANSASIA BIOMEDICALS LIMITED
PERFORMANCE QUALIFICATION

TRANSASIA®
Bio-Medicals Ltd.

INTEGRO HOSPITAL

Model: EM 200

Sr No:

S200839

6.3. Precession:

	Urea	Creat	TB	DB	SGPT	SGOT	ALP	T.P	ALB	UA	CA	GLU
01	35.7	1.00	1.38	0.60	42.7	40.0	117	6.18	3.37	5.8	9.2	101.3
02	35.7	1.01	1.39	0.58	43.7	39.4	128	5.90	3.44	6.2	9.3	102.5
03	36.5	1.02	1.38	0.61	40.3	39.1	121	6.35	3.42	5.6	9.3	95.7
04	36.5	1.03	1.39	0.61	43.7	38.8	117	6.02	3.53	5.5	9.3	93.9
05	34.4	1.04	1.37	0.61	42.1	40.5	121	5.89	3.43	5.7	8.4	103.5
06	35.0	1.03	1.38	0.60	41.6	38.3	120	5.94	3.40	5.4	9.6	102.0
07	35.2	0.98	1.38	0.60	41.1	39.1	124	5.97	3.45	5.7	8.6	105.1
08	35.6	1.00	1.37	0.63	41.1	39.1	116	5.96	3.44	5.4	9.5	92.9
09	35.7	1.04	1.42	0.59	41.3	39.1	120	5.90	3.47	5.9	9.5	93.5
10	35.1	1.03	1.38	0.60	42.4	38.0	118	5.94	3.47	5.6	8.3	93.4
Mean	35.54	1.018	1.384	0.603	42	39.14	120.2	6.005	3.442	5.68	9.12	99.2
S.D	0.652	0.020	0.014	0.013	1.135	0.729	3.645	0.148	0.043	0.244	0.447	4.898
CV%	1.834	1.954	1.033	2.218	2.703	1.863	3.033	2.463	1.261	4.296	4.898	4.978
Acceptable Range (%)	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Remarks	Pass	Pass	Pass	Pass		Pass	Pass	Pass	Pass	Pass	Pass	Pass

Result Reprint

Report Type :Patients

21-Feb-2023

Test: GLHK

r #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	GLHK ERBA PATH1	GLHK	305.1 mg/dL	H	2304	21-Feb-2023 15:10:08
2	GLHK ERBA PATH2	GLHK	155.5 mg/dL	H	2305	21-Feb-2023 15:10:26
3	GLHK ERBA PATH3	GLHK	71.9 mg/dL	L	2306	21-Feb-2023 15:10:44
4	GLHK ERBA PATH4	GLHK	41.1 mg/dL	L	2307	21-Feb-2023 15:11:02
5	GLHK ERBA PATH5	GLHK	21.9 mg/dL	L	2308	21-Feb-2023 15:11:20



Result Reprint

Report Type :Patients 21-Feb-2023 Test: CRENZ

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	CREAT ERBA PATH1	CRENZ	3.61 mg/dL	H	2314	21-Feb-2023 15:20:03
2	CREAT ERBA PATH2	CRENZ	1.65 mg/dL	H	2315	21-Feb-2023 15:20:21
3	CREAT ERBA PATH3	CRENZ	0.86 mg/dL		2316	21-Feb-2023 15:20:39
4	CREAT ERBA PATH4	CRENZ	0.40 mg/dL	L	2317	21-Feb-2023 15:20:57
5	CREAT ERBA PATH5	CRENZ	0.20 mg/dL	L	2318	21-Feb-2023 15:21:15



Result Reprint

Report Type :Patients

Test: UA

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	UA ERBA PATH1	UA	12.2 mg/dL	H	2319	21-Feb-2023 15:45:43
2	UA ERBA PATH2	UA	6.4 mg/dL		2320	21-Feb-2023 15:46:02
3	UA ERBA PATH3	UA	3.3 mg/dL	L	2321	21-Feb-2023 15:46:20
4	UA ERBA PATH4	UA	1.5 mg/dL	L	2322	21-Feb-2023 15:46:38



Result Reprint

Report Type :Patients 21-Feb-2023 Test: SGPTD

#	Sample ID	Test	Result	Unit	Flag	Curve #	Result Date
	SGPT ERBA PATH1	SGPTD	136.8	U/L	H	2329	21-Feb-2023 15:48:44
	SGPT ERBA PATH2	SGPTD	68.3	U/L	H	2330	21-Feb-2023 15:49:02
	SGPT ERBA PATH3	SGPTD	35.5	U/L		2331	21-Feb-2023 15:49:20
	SGPT ERBA PATH4	SGPTD	17.9	U/L		2332	21-Feb-2023 15:49:38
	SGPT ERBA PATH5	SGPTD	9.1	U/L		2333	21-Feb-2023 15:49:56



Result Reprint

Report Type :Patients 21-Feb-2023 Test: SGOTD

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	SGOT ERBA PATH1	SGOTD	142.4 U/L	H	2324	21-Feb-2023 15:47:14
2	SGOT ERBA PATH2	SGOTD	69.4 U/L	H	2325	21-Feb-2023 15:47:32
3	SGOT ERBA PATH3	SGOTD	33.0 U/L		2326	21-Feb-2023 15:47:50
4	SGOT ERBA PATH4	SGOTD	8.6 U/L		2327	21-Feb-2023 15:48:08
5	SGOT ERBA PATH5	SGOTD	17.5 U/L		2328	21-Feb-2023 15:48:26



Result Reprint

Report Type :Patients

21-Feb-2023

Test: BIDD

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	BID ERBA PATH1	BIDD	1.73 mg/dL	H	2334	21-Feb-2023 15:50:14
2	BID ERBA PATH2	BIDD	0.90 mg/dL	H	2335	21-Feb-2023 15:50:32
3	BID ERBA PATH3	BIDD	0.48 mg/dL	H	2336	21-Feb-2023 15:50:50
4	BID ERBA PATH4	BIDD	0.24 mg/dL		2337	21-Feb-2023 15:51:08
5	BID ERBA PATH5	BIDD	0.14 mg/dL		2338	21-Feb-2023 15:51:26



Result Reprint

Report Type :Patients 21-Feb-2023 Test: BIT

Sr #	Sample ID	Test	Result Unit	Flag	Curve #	Result Date
1	BIT ERBA PATH2	BIT	2.36 mg/dL	H	2340	21-Feb-2023 15:52:02
2	BIT ERBA PATH3	BIT	0.98 mg/dL		2341	21-Feb-2023 15:52:21
3	BIT ERBA PATH4	BIT	0.49 mg/dL		2342	21-Feb-2023 15:52:39
4	BIT ERBA PATH5	BIT	0.22 mg/dL		2343	21-Feb-2023 15:52:57

