



CERTIFICATE OF CALIBRATION/ VERIFICATION

Customer Name: EXCELLAS CLINICAS PVT. LTD.
Model: ERBA EM200 Fully Automated Bio-Chemistry Analyzer
Serial No: 2002223
Calibration Date: 09 May 2023
Next Calibration due on before : 09 May 2024
Calibrator Used: Multi Cal Lot Number: 2204083A
Quality Control Used: BIORAD Lot Number: S062131B

This is to certify that the above mentioned instrument has been verified of calibration according to the procedures provided by the manufacturer -

General Parameters:

Parameter	Measured Value	Acceptable Range	
Line Voltage	230V	230 V +/- 5%	Pass
Logic Voltage	5.0 V	4.9 V to 5.1 V	Pass
Lamp Voltage	12.0 V	11.8 V to 12.2 V	Pass
Flow cell Temperature	37.0 deg	37 +/- 0.5	Pass
45Cuvette blank value for for all filter	Enclose valuesheet for all cuvette	Abs 0.02-0.2	Pass





Photometer Filter Gain Levels:

s.no	Filter Value in nm	Filter Gain in mv	Acceptable Range of gain
	340	578	350 mv to 900 mv
	405	517	350 mv to 900 mv
	505	528	350 mv to 900 mv
	546	516	350 mv to 900 mv
	578	495	350 mv to 900 mv
	600	498	350 mv to 900 mv
	660	478	350 mv to 900 mv
	700	460	350 mv to 900 mv

Applied

Technical Service Department

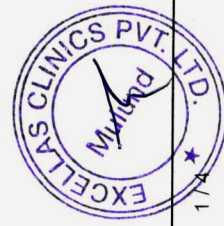
Transasia Bio-medical Limited



Result Reprint

Report Type : Calibration

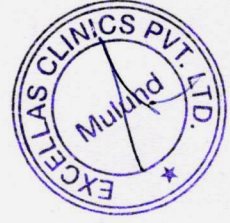
Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
1	001	DW BLANK NS	SGPTD	-0.0003	-	125802	9-May-2023 12:32:58
2	001	DW BLANK NS	SGPTD	-0.0001	-	125803	9-May-2023 12:33:16
3	2204083A	MULTICAL2204083A	SGPTD	-0.0327	-	125804	9-May-2023 12:33:34
4	2204083A	MULTICAL2204083A	SGPTD	-0.0336	-	125805	9-May-2023 12:33:52
5	001	DW BLANK NS	SGOTD	-0.0009	-	125808	9-May-2023 12:34:46
6	001	DW BLANK NS	SGOTD	-0.0003	-	125809	9-May-2023 12:35:04
7	2204083A	MULTICAL2204083A	SGOTD	-0.0357	-	125810	9-May-2023 12:35:22
8	2204083A	MULTICAL2204083A	SGOTD	-0.0360	-	125811	9-May-2023 12:35:40
9	001	DW BLANK NS	ALPU	0.0005	-	125814	9-May-2023 12:36:34
10	001	DW BLANK NS	ALPU	0.0004	-	125815	9-May-2023 12:36:52
11	2204083A	MULTICAL2204083A	ALPU	0.0524	-	125816	9-May-2023 12:37:10
12	2204083A	MULTICAL2204083A	ALPU	0.0518	-	125817	9-May-2023 12:37:28
13	001	DW BLANK NS	GGT	0.0011	-	125820	9-May-2023 12:38:23
14	001	DW BLANK NS	GGT	0.0002	-	125821	9-May-2023 12:38:41
15	2204083A	MULTICAL2204083A	GGT	0.0646	-	125822	9-May-2023 12:38:59
16	2204083A	MULTICAL2204083A	GGT	0.0645	-	125823	9-May-2023 12:39:17
17	001	DW BLANK NS	BIDD	0.0019	-	125826	9-May-2023 12:40:11



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Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
18	001	DW BLANK NS	BIDD	-0.0052	-	125827	9-May-2023 12:40:29
19	2204083A	MULTICAL2204083A	BIDD	0.1024	-	125828	9-May-2023 12:40:47
20	2204083A	MULTICAL2204083A	BIDD	0.1018	-	125829	9-May-2023 12:41:05
21	001	DW BLANK NS	BIT	0.0004	-	125832	9-May-2023 12:41:59
22	001	DW BLANK NS	BIT	0.0005	-	125833	9-May-2023 12:42:17
23	2204083A	MULTICAL2204083A	BIT	0.1835	-	125834	9-May-2023 12:42:35
24	2204083A	MULTICAL2204083A	BIT	0.1834	-	125835	9-May-2023 12:42:53
25	001	DW BLANK NS	UREA	-0.0041	-	125838	9-May-2023 12:43:48
26	001	DW BLANK NS	UREA	-0.0041	-	125839	9-May-2023 12:44:06
27	2204083A	MULTICAL2204083A	UREA	-0.1380	-	125840	9-May-2023 12:44:24
28	2204083A	MULTICAL2204083A	UREA	-0.1385	-	125841	9-May-2023 12:44:41
29	001	DW BLANK NS	CRENZ	0.0073	-	125844	9-May-2023 12:45:36
30	001	DW BLANK NS	CRENZ	0.0072	-	125845	9-May-2023 12:45:54
31	2204083A	MULTICAL2204083A	CRENZ	0.0875	-	125846	9-May-2023 12:46:12
32	2204083A	MULTICAL2204083A	CRENZ	0.0861	-	125847	9-May-2023 12:46:30
33	001	DW BLANK NS	GLU	0.0132	-	125850	9-May-2023 12:49:12
34	001	DW BLANK NS	GLU	0.0136	-	125851	9-May-2023 12:49:31



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Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
35	2204083A	MULTICAL2204083A	GLU	0.6906 -		125852	9-May-2023 12:49:49
36	2204083A	MULTICAL2204083A	GLU	0.6922 -		125853	9-May-2023 12:50:07
37	001	DW BLANK NS	TRIG	0.0156 -		125856	9-May-2023 12:51:01
38	001	DW BLANK NS	TRIG	0.0164 -		125857	9-May-2023 12:51:19
39	2204083A	MULTICAL2204083A	TRIG	0.2491 -		125858	9-May-2023 12:51:37
40	2204083A	MULTICAL2204083A	TRIG	0.2473 -		125859	9-May-2023 12:51:55
41	001	DW BLANK NS	CHOL	0.0493 -		125862	9-May-2023 12:52:49
42	001	DW BLANK NS	CHOL	0.0515 -		125863	9-May-2023 12:53:07
43	001	DW BLANK NS	CHOL	0.0495 -		125864	9-May-2023 12:53:25
44	2204083A	MULTICAL2204083A	CHOL	0.3150 -		125865	9-May-2023 12:53:43
45	2204083A	MULTICAL2204083A	CHOL	0.3142 -		125866	9-May-2023 12:54:01
46	2204083A	MULTICAL2204083A	CHOL	0.3160 -		125867	9-May-2023 12:54:19
47	001	DW BLANK NS	UA	0.0027 -		125872	9-May-2023 12:56:08
48	001	DW BLANK NS	UA	0.0007 -		125873	9-May-2023 12:56:26
49	2204083A	MULTICAL2204083A	UA	0.0730 -		125874	9-May-2023 12:56:44
50	2204083A	MULTICAL2204083A	UA	0.0725 -		125875	9-May-2023 12:57:02
51	001	DW BLANK NS	CA	0.1694 -		125878	9-May-2023 12:57:56



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Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
52	001	DW BLANK NS	CA	0.1717 -		125879	9-May-2023 12:58:14
53	2204083A	MULTICAL2204083A	CA	0.5268 -		125880	9-May-2023 12:58:32
54	2204083A	MULTICAL2204083A	CA	0.5249 -		125881	9-May-2023 12:58:50
55	001	DW BLANK NS	ALBD	0.0790 -		125884	9-May-2023 12:59:44
56	001	DW BLANK NS	ALBD	0.0774 -		125885	9-May-2023 13:00:02
57	2204083A	MULTICAL2204083A	ALBD	0.7289 -		125886	9-May-2023 13:00:20
58	2204083A	MULTICAL2204083A	ALBD	0.7273 -		125887	9-May-2023 13:00:38
59	001	DW BLANK NS	PRO	0.0847 -		125890	9-May-2023 13:01:32
60	001	DW BLANK NS	PRO	0.0835 -		125891	9-May-2023 13:01:50
61	2204083A	MULTICAL2204083A	PRO	0.4033 -		125892	9-May-2023 13:02:08
62	2204083A	MULTICAL2204083A	PRO	0.4061 -		125893	9-May-2023 13:02:27



Result Reprint

Report Type : Controls 09-May-2023

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date	Mean	SD	Interval (3SD)
1	S022358	NORMAL S022358	SGPTD	39.2 U/L		125806	9-May-2023 12:34:10	40.530	2.700	32.43 - 48.63
2	S022358	NORMAL S022358	SGOTD	36.6 U/L		125812	9-May-2023 12:35:58	38.610	2.570	30.9 - 46.32
3	S022358	NORMAL S022358	ALPU	131 U/L	+1SD	125818	9-May-2023 12:37:46	117.520	7.830	94.03 - 141.01
4	S022358	NORMAL S022358	GGT	61.0 U/L		125824	9-May-2023 12:39:35	61.420	4.090	49.15 - 73.69
5	S022358	NORMAL S022358	BIDD	0.66 mg/dl		125830	9-May-2023 12:41:23	0.640	0.050	0.49 - 0.79
6	S022358	NORMAL S022358	BIT	1.30 mg/dl		125836	9-May-2023 12:43:11	1.360	0.110	1.03 - 1.69
7	S022358	NORMAL S022358	UREA	35.3 mg/dl		125842	9-May-2023 12:45:00	34.310	1.720	29.15 - 39.47
8	S022358	NORMAL S022358	CRENZ	1.01 mg/dl	-1SD	125848	9-May-2023 12:46:48	1.100	0.060	0.92 - 1.28
9	S022358	NORMAL S022358	GLU	95.8 mg/dl		125854	9-May-2023 12:50:25	92.720	4.640	78.8 - 106.64
10	S022358	NORMAL S022358	TRIG	112.0 mg/dl		125860	9-May-2023 12:52:13	112.220	5.610	95.39 - 129.05
11	S022358	NORMAL S022358	CHOL	143 mg/dl		125868	9-May-2023 12:54:37	143.810	7.190	122.24 - 165.38
12	S022358	NORMAL S022358	UA	5.7 mg/dl		125876	9-May-2023 12:57:20	5.740	0.290	4.87 - 6.61
13	S022358	NORMAL S022358	CA	8.8 mg/dl		125882	9-May-2023 12:59:08	8.970	0.450	7.62 - 10.32
14	S022358	NORMAL S022358	ALBD	3.54 g/dl		125888	9-May-2023 13:00:57	3.460	0.170	2.95 - 3.97
15	S022358	NORMAL S022358	PRO	5.84 g/dl		125894	9-May-2023 13:02:45	5.560	0.370	4.45 - 6.67
16	S022358	NORMAL S022358	HDLC	45.1 mg/dl		125897	9-May-2023 13:30:42	45.370	3.020	36.31 - 54.43



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Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date	Mean	SD	Interval (3SD)
1	S062131B	PATH S062131B	ALPU	417 U/L	-1SD	125688	9-May-2023 10:17:40	477.136	33.520	376.576 - 577.696
2	S062131B	PATH S062131B	SGPTD	108.2 U/L	-1SD	125807	9-May-2023 12:34:28	124.230	9.250	96.48 - 151.98
3	S062131B	PATH S062131B	SGOTD	139.3 U/L	-1SD	125813	9-May-2023 12:36:16	151.890	10.130	121.5 - 182.28
4	S062131B	PATH S062131B	GGT	174.8 U/L		125825	9-May-2023 12:39:53	177.424	9.040	150.304 - 204.544
5	S062131B	PATH S062131B	BIDD	1.39 mg/dl		125831	9-May-2023 12:41:41	1.450	0.140	1.03 - 1.87
6	S062131B	PATH S062131B	BIT	4.93 mg/dl		125837	9-May-2023 12:43:29	5.240	0.440	3.92 - 6.56
7	S062131B	PATH S062131B	UREA	94.0 mg/dl		125843	9-May-2023 12:45:18	95.695	7.010	74.665 - 116.725
8	S062131B	PATH S062131B	CRENZ	3.46 mg/dl		125849	9-May-2023 12:47:06	3.603	0.270	2.793 - 4.413
9	S062131B	PATH S062131B	GLU	240.6 mg/dl		125855	9-May-2023 12:50:43	252.030	12.600	214.23 - 289.83
10	S062131B	PATH S062131B	TRIG	168.1 mg/dl		125861	9-May-2023 12:52:31	165.757	4.000	153.757 - 177.757
11	S062131B	PATH S062131B	CHOL	230 mg/dl		125869	9-May-2023 12:54:55	235.750	13.280	195.91 - 275.59
12	S062131B	PATH S062131B	HDLC	85.9 mg/dl		125871	9-May-2023 12:55:49	83.868	2.150	77.418 - 90.318
13	S062131B	PATH S062131B	UA	11.8 mg/dl		125877	9-May-2023 12:57:38	11.750	0.590	9.98 - 13.52
14	S062131B	PATH S062131B	CA	10.4 mg/dl		125883	9-May-2023 12:59:26	10.600	0.490	9.13 - 12.07
15	S062131B	PATH S062131B	ALBD	4.91 g/dl		125889	9-May-2023 13:01:15	4.780	0.240	4.06 - 5.5
16	S062131B	PATH S062131B	PRO	8.27 g/dl		125895	9-May-2023 13:03:03	8.220	0.380	7.08 - 9.36
17	S062131B	PATH S062131B	HDLC	86.3 mg/dl	+1SD	125898	9-May-2023 13:30:59	83.868	2.150	77.418 - 90.318

