



STAR BIOMED PVT. LTD.

Calibration Certificate

Following values have been checked & adjusted on BS 240E (SI.No. BC8- 7A000001) at Shiv Diagnostic & Maternity Center, Near Spectrum Mall Cort Road , Kashipur-244713, Distt. U.S.Nager (Uttarakhand)

System voltages are in the specified range –Checked by Digital Multimeter are as below:

S.No.	Module	Observed Value	Acceptable Range
1	24 Voltage Supply	24.3 VDC	24.0 +/- 1.0 VDC
2	12 Voltage Supply	12.2 VDC	12.0 +/- 0.5 VDC
3	5 Voltage Supply	5.01 VDC	5.00 +/- 0.1 VDC
4	Liquid Level Sensor Board Supply	4.0 VDC	4.0 +/- 0.1 VDC

System Temperature values are in the specified range –Checked by Digital Thermometer are as below:

S.No.	Module	Observed Value	Acceptable Range
1	Reagent Preheater Temp.	45 °C	45 +/- 0.5 °C
2	Reaction Disk Temp.	37 °C	37 +/- 0.4 °C
3	Reagent Compartment Temp.	10 °C	8 to 12 °C

Photometer Adjustment Values are within range as recommended:

S.No.	Module	Observed Value	Acceptable Range
1	Background Count for all Wavelength	52,000 +/-40	48,000 to 55,000

Pipetting Syringes are Ok volume dispensed measured on Digital Weighing Machine:

S.No.	Module	Observed Value	Acceptable Range
1	Reagent/Sample Syringe	500 uL	500 +/-1uL

Washing Dispense are Ok volume dispensed measured on Digital Weighing Machine

S.No.	Module	Observed Value	Acceptable Range
1	Interior Washing	3.01 mL	3.00 +/- 500uL
2	Exterior Washing	3.01 mL	3.00 +/- 500uL

- All other mechanisms have been checked through software and found OK.
- Performed calibration for End Point, Kinetic & Fixed Time Kinetic.Run control & sample, Results were satisfactory.
- Next Calibration will be performed on 20/11/2023.

For, Star Biomed Pvt. Ltd.

Service Engineer

Date: 21/11/2022

Chem ALL

History

Cal Date 25/10/2023

25/10/2023

Chem	Flag	Cal Status	Cal Date/Time	R0	K	A
CREA-S		Calibrated	23/09/2023 10:28:46	72.9403	0.0032	
T-bil-D II		Calibrated	23/09/2023 10:27:03	-0.8653	0.0122	
D-bil-D II		Calibrated	15/09/2023 11:38:31	0.1473	0.0019	
ALT		Calibrated	16/04/2023 12:12:44	5.6076	0.5213	
AST		Calibrated	23/09/2023 10:27:46	0.2283	0.5211	
ALP		Calibrated	15/09/2023 11:39:31	20.3663	0.5104	
γ-GT		Calibrated	22/09/2022 17:13:36	5.6864	0.2300	
TP		Calibrated	02/07/2023 18:28:02	-10.3307	0.0065	
ALB		Calibrated	15/09/2023 11:36:02	227.3124	0.0006	
TG	FAC	Calibrated	22/09/2022 17:14:06	1.9395	0.0444	

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Chem ALL

Current

History

Cal Date 25/10/2023 - 25/10/2023 -

Chem	Flag	Cal Status	Cal Date/Time	R0	K	A
LDL-C		Edited	10/07/2023 15:23:33	15.5314	0.0535	
HDL-C	FAC	Calibrated	22/09/2022 16:25:36	6.5539	0.0446	
TC	FAC	Calibrated	22/09/2022 17:11:21	-0.1888	0.0433	
UA		Calibrated	02/07/2023 18:28:15	-46.9279	0.0077	
UREA		Calibrated	12/09/2023 12:11:20	14.1847	0.1236	
Ca	FAC	Calibrated	22/09/2022 17:10:36	-9.3449	0.0022	
α -AMY		Calibrated	22/09/2022 17:16:51	12.2875	0.6423	
Glu-G		Calibrated	21/01/2023 18:14:40	-11.2353	0.0291	
TG A		Calibrated	28/07/2023 12:49:24	-1.7232	0.0561	
GGT A		Calibrated	16/03/2020 17:00:39	7.4257	0.2170	



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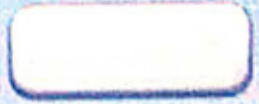
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Chem 

Current

History

Cal Date

Chem	Flag	Cal Status	Cal Date/Time	RO
Fe		Calibrated	22/10/2023 20:38:17	125.4707
GGT H		Calibrated	09/06/2020 20:34:18	10.9796
UA H		Calibrated	08/03/2021 12:45:51	-8.5492
GLU A		Calibrated	22/12/2020 13:21:07	-4.3225
CRP H		Calibrated	14/08/2021 15:00:29	249.7252
				341.4142
				461.7502
				758.1407
				1508.4960
				3186.4249

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Current

History

Cal Date -

Chem	Flag	Cal Status	Cal Date/Time	R0	K
LDH H		Calibrated	18/01/2022 20:43:34	-3.0143	-0.5248
LIPASE H		Calibrated	30/06/2021 14:13:15	117.4944	0.1444
AMY AGP		Calibrated	28/07/2023 12:49:09	0.1364	0.4674
Hb-2		Calibrated	08/08/2023 12:58:13	-18.8112	0.0570
HbA1c-2		Calibrated	08/08/2023 13:03:29	87.6203	0.0147
CRP II		Calibrated	20/02/2023 20:08:10	380.2658	8498.3130
LDH		Calibrated	22/09/2022 16:24:06	0.5156	0.6038
MALB		Extended	17/12/2022 11:42:23	2281.5614	
				4317.3246	
				7041.3987	



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Program



Result



Reagent



QC



Utility



Alarm



Exit

Reagent/Calibration

Biochemistry Calibration

Reagent Carousel Status

Cal Setup

Chem ALL

Current

History

Cal Date 25/10/2023

25/10

Chem	Flag	Cal Status	Cal Date/Time	R0	K
				11089.9262	
HCY DIASYS		Calibrated	29/08/2023 22:13:09	13.2519	
				146.2062	
				228.7196	
				380.0046	
				538.1710	

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