

G MULTI SERVICES

78,Yahoob Street, Gobichettipalayam, Erode Dist,Tamil Nadu. Pin:638 452. gmultiservicesgobi@gmail.com. Cell: 96597 20654. Bio Medical Instruments Services

Er. A. Ibathul Raziq DECE.,BE (ICE) Bio Medical Engineer

Equipment : GLUCOMETER

MAKE : ON CALL

MODEL : PLUS

PROTECT CLASS / TYPE : Risk Class II

S. No.

: CE0123

S.No	1	Measurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards,if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status	NA	
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (B) Risk of mechanical damages, if any	No No	
3	Performance Test	(a)Accuracy (b)Alarm priorities (d) Abnormalities (e) Display checkup (f) Keypad/indicators & Connectors	Normal OK No Ok Well	
4	Calibration Test	(a)Power Cell +3 Voltages (b) Strip control solution test	Ok calibrated	2
Formulated By: Edition Research Laboratory		Issued By:	User Departn	nent:
Endorsed By : Research team head Reviewed On: 18.08.23 Next Review : 17.08.24		TI SERLE		



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Er. A. Ibathul Raziq DECE.,BE (ICE) Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : CENTRIFUGE

MAKE

: REMI

MODEL

: CENT100

PROTECT CLASS / TYPE : Risk Class I

: GA/CENT/001

S.No		Measurement Parameters	Chan	
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards, if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status	230 volts 0 to 5 volts No Zero ohms 10mA	Remarks Stabilizer/UPS With in Ranges
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (b) Front Panet/Top lid, buckets, motor aseembly & power cord (c)Risk of mechanical damages, if any	NA No OK	Well Checked OK
3	Performance Test	 (a) On /Off switch (b) Speed regulator switch & functional tests (c) Running test (d) Abnormalities (e) Display checkup (f) Keypad/indicators & connector 	Normal OK Accurate OK No Well	Ok Perfect Perfect
	Calibration Test	(a) Vibration test (b) Speed regulation gradual hike/wobbling test (c) Running test with load (d) Display checkup (e) Timer test	Well Done Ok	Perfect
ormulated By Edition esearch Laboratory		Issued By:	User Departm	ent:
est Review : 17.08.24		STISERLICE OF A SECOND A SECON		



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Er. A. Ibathul Raziq DECE., BE (ICE) Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment: CELL COUNTER

: MINDRAY

MODEL : BC-20S

MAKE

PROTECT CLASS / TYPE : Risk Class I

S. No.

: GA/CELL/001

S.No	N	leasurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards,if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status	230 volts 0 to 5 volts No Zero ohms 10mA NA	Stabilizer/UPS With in Ranges Well
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (b) Front Panet/Top lid, buckets,motor aseembly & power cord (c)Risk of mechanical damages,if any	No OK No	Checked OK
3	Performance Test	(a) On /Off switch (b) switch & functional tests (c) Spindle Motor (d) Running test (e) Abnormalities (f) Display checkup (g) Keypad/indicators & connector	Normal OK OK OK No Well Well	Ok Perfect Perfect
4	Calibration Test	(a) WB Test (b) Printer (c) Display checkup (d) Timer test (e) Result	Done Ok OK OK Perfect	Perfect
Formulated By: Edition Research Laboratory		Issued By:	User Depart	ment:
Research team head Reviewed On: 18.08.23 Next Review: 17.08.24		SUTI SERVE		



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Er. A. Ibathul Raziq DECE., BE (ICE) Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment: REFRIGERATOR

MAKE : LG

MODEL

: GL278VE5-2011

PROTECT CLASS / TYPE : Class II

S. No.

: GA/REF/001

S.No	N	leasurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards,if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current	230 volts 0 to 5 volts No Zero ohms 10mA	Stabilizer/UPS With in Ranges
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (b)Risk of mechanical damages, if any	No No	Checked OK
3	Performance Test	 (a) Regular functional mode / cooling temp (b) Key pad, display and settings (c) Abnormalities (d) Knobs & closures alignment 	Normal OK No Ok	Well Well
4	Calibration Test	(a) Cooling mode test (b) Normal mode test (c) Temp test	Checked	tested
Formulated By: Edition Research Laboratory		Issued By:	User Departi	ment:
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Er. A. Ibathul Raziq DECE., BE (ICE) **Bio Medical Engineer**

Calibration Protocol & Report for Medical Equipment

Equipment: PIPETTE

MAKE

: FINNE PIPETTE F3

MODEL

:100-1000µL

PROTECT CLASS / TYPE : Risk Class II

: RW13777

S.No	N	leasurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards,if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status		-
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any	No No	Checked OK
3	Performance Test	(e) Mean 99.2μl (f) A -0.5 μl (g) Acc % -0.71 (h) CV% -0.36	OK OK Ok	
4	Calibration Test	min volume 100 μl max Volume 1000 μl (e) A+or - 1.5 , 5 μl (f) S 1.5 μl max Vol. 1000 μl (g) Acc+ or - 1.50, 0.50 (h) CV% 0.60, 0.20	Ok Ok Ok Ok	Tested
Formulated By: Edition Research Laboratory		Issued By:	User Depa	rtment:
Research team head Reviewed On: 18.08.23		STITI SERILGI		
Next Review: 17.08.24		* *		



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Er. A. Ibathul Raziq DECE.,BE (ICE) Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : SEMI AUTO ANALYSER

MAKE

: ROBONIK

MODEL

: PRIETEST TOUCH

PROTECT CLASS / TYPE : Risk Class I

S. No.

S.N	0		GPHC, GANAPA	
1	Electrical Test	Measurement Parameters		
	ciecuical lest	(a)Safety Standards (range	Status	Remarks
			230 volts	
		The state of Still Kitter Land of	0 to 5 volt	Stabilizer/UF
1		(d)Chassis & Insulation Resistance	No	
1		(a) Cai (ii) & Lhassis Look	Zero ohms	With in
2	Di.	(f) Battery conditions & charging status	10mA	Ranges
1	Physical	(a)Cabinet & Visible damages, if any	NA	Well
1	Condition Test	(b) Front Panet/Ton list amages, if any	No	- vveii
		(b) Front Panet/Top lid, buckets, motor aseembly & power cord	OK	
		(c)Risk of mechanical	1	Charles
3		(c)Risk of mechanical damages, if any	No	Checked OK
3	Performance Test	(a) On /Off switch		
		(b) switch & functional tests	Normal	Ok
		(c) Running test	ОК	
		(d) Abnormalities	OK	Perfect
- 1		(e) Display checkup	No	Perfect
-+		(f) Keypad/indicate	Well	
	Calibration Test	(f) Keypad/indicators & connector (a) End Point Test	Well	
		(b) Display of a	Done	Perfect
		(b) Display checkups (c) Filter selection	Ok	refrect
	Y.,	(d) Record OD	OK	(
		(e) Calculation	OK	
		(f) Two Point Test	Well	
		(g) Kinetic Test	Perfect	
		(h) Result		
		(ii) hesuit		1
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t Revie	w: 17.08.24	10/20/0		



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Er. A. Ibathul Raziq DECE., BE (ICE) **Bio Medical Engineer**

Calibration Protocol & Report for Medical Equipment

Equipment: MICROSCOPE

MAKE

: UNICEF

MODEL

PROTECT CLASS / TYPE : Risk Class II/CF

S. No.

: 16725

S.No	N	leasurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards, if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status		Stabilizer/Ups With in Ranges Well
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any	No OK No	Checked ok
3	Performance Test	(a) Intensity test taken by lux meter for a particular & results (b) Measurement of Lens range (c) Lamp life time	Normal OK OK OK	Fine Brightness Perfect Apprx.
4	Calibration Test	(a) Intensity test taken by lux meter for a particular lamp& results (b) Measurement of Lenses cal (c) Lamp life time	OK Done OK	In range Peak in range
Formulated By: Edition Research Laboratory		Issued By:	User Depa	In range rtment:
Resear head Reviev	ved On: 18.08.23 deview : 17.08.24	STISER DO		



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Er. A. Ibathul Raziq DECE., BE (ICE) **Bio Medical Engineer**

Calibration Protocol & Report for Medical Equipment

Equipment: PIPETTE

MAKE

: FINNPIPETTE F3

MODEL

: 10-500µL

PROTECT CLASS / TYPE : Risk Class II

S. No.

: GA/PE/001

S.No		Measurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing (c)Risk of shock/fire Hazards,if any (d)Chassis & Insulation Resistance (e) Earth & Chassis Leakage Current (f) Battery conditions & charging status		
2	Physical Condition Test	(a)Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any	No No	Checked OK
3	Performance Test	(a) Mean 99.3μl (b) A -0.6 μl (c) Acc % -0.71 (d) CV% -0.36	OK OK Ok	
4	Calibration Test	min volume 10 μl max Volume 100 μl (a) A+or - 1.5 , 5 μl (b) S 1.5 μl max Volume 5 μl (c) Acc+ or - 1.50, 0.50 (d) CV% 0.40,0.20	Ok Ok Ok	Tested
Formulated By: Edition Research Laboratory		Issued By:	User Depar	tment:
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