G MULTI SERVICES

78,Yahoob Street, Gobichettipalayam, Erode Dist,Tamil Nadu. Pin:638 452.
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Bio Medical Instruments Services

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. : ATCD3850509RBK
Location : **UPHC, WALAJAPET**

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	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) Running test (d) Abnormalities (e) Display checkup (f) Keypad/indicators & connector	Normal OK OK No Well Well	Ok Perfect Perfect
4	**Calibration Test**	(a) End Point Test (b) Display checkups (c) Filter selection (d) Record OD (e) Calculation (f) Two Point Test (g) Kinetic Test (h) Result	Done Ok OK OK Well Perfect	Perfect
Formulated By: Edition Research Laboratory		**Issued By:** G MULTI SERVICES GOBI	**User Department:**	
Endorsed By : Research team head				
Reviewed On: 21.09.23 Next Review : 20.09.24				

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Calibration Protocol & Report for Medical Equipment

Equipment : **PIPETTE**
MAKE : MICROLUX
MODEL :100-1000µL

PROTECT CLASS /TYPE : Risk Class II
S. No. : WA/PI/002
Location : **UPHC, WALAJAPET**

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**	(e) Mean 99.6µl (f) A -0.5 µl (g) Acc % -0.71 (h) CV% -0.36	OK 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% 0.30,0.10	 Ok Ok Ok Ok	Tested
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Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : **PIPETTE**
MAKE : MICROLUX
MODEL : 5-50µL

PROTECT CLASS /TYPE : Risk Class II
S. No. : WA/PI/001
Location : **UPHC, WALAJAPET**

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 99.2µl (b) A -0.6 µl (c) Acc % -0.71 (d) CV% -0.36	OK OK OK Ok	
4	**Calibration Test**	min volume 5 µl max Volume 50 µl (ELECTRONIC BALANCETEST) (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% 0.60,0.20	Ok Ok Ok Ok	Tested
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Bio Medical Engineer

Calibration Protocol & Report for Medical Equipment

Equipment : **CENTRIFUGE**
MAKE : REMI
MODEL : C-854/6

PROTECT CLASS /TYPE : Risk Class I
S. No. : ZCLN36918
Location : **UPHC, WALAJAPET**

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	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) Speed regulator switch & functional tests (c) Running test (d) Abnormalities (e) Display checkup (f) Keypad/indicators & connector	Normal OK Accurate OK No Well Well	Ok Perfect Perfect
4	**Calibration Test**	(a) Vibration test (b) Speed regulation gradual hike/wobbling test (c) Running test with load (d) Display checkup (e) Timer test	Done Ok	Perfect
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Calibration Protocol & Report for Medical Equipment

Equipment : **MICROSCOPE**
MAKE : ZOOM
MODEL : CBCM-08

PROTECT CLASS /TYPE : Risk Class II/CF
S. No. : 474356
Location : **UPHC, WALAJAPET**

S.No	Measurement Parameters		Status	Remarks
1	**Electrical Test**	(a)Safety Standards (range : 210-240 V)	235 volts	Stabilizer/Ups
		(b)Equipotential ground & Earthing	0 to 5volts	
		(c)Risk of shock/fire Hazards,if any	No	
		(d)Chassis & Insulation Resistance	Zero ohms	With in
		(e) Earth & Chassis Leakage Current	10mA	Ranges
		(f) Battery conditions & charging status	---	Well
2	**Physical Condition Test**	(a)Cabinet & Visible damages, if any	No	
		(b)Power Supply unit, halogen lamps, Power cord accessories	OK	
		(c) Risk of mechanical damages, if any	No	Checked ok
3	**Performance Test**	(a) Halogen lamps intensity	Normal	Fine
		(b) Intensity test taken by lux meter for a particular lamp & results	OK	Brightness Perfect
		(c) Measurement of lux/Lens range	OK	20000 hrs
		(d) Lamp life time	OK	Apprx.
4	**Calibration Test**	(a) LED lamps intensity	OK	In range
		(b) Intensity test taken by lux meter for a particular lamp& results	Done	Peak
		(c) Measurement of Lux/Lenses cal	1200 Lux	in range
		(d) Lamp life time	OK	In range
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