

G MULTI SERVIC

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**

Calibration Protocol & Report for Medical Equipment

Equipment: PIPETTE

MAKE

: FINNPIPETTE F3

MODEL

:100-1000µL

PROTECT CLASS / TYPE : Risk Class II

: AM/PI/002

Location : UPHC, AMBEDKAR NAGAR.

S.No	M	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 99.3μl (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% 0.60,0.10	Ok Ok Ok Ok	Tested
Formulated By: Edition Research Laboratory		Issued By:	User Department:	
Research team head Reviewed On: 13.05.23 Next Review: 12.05.24		GOBI TO STATE OF THE STATE OF T		ż



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Calibration Protocol & Report for Medical Equipment

Equipment: PIPETTE

: FINNPIPETTE F3

MAKE MODEL : 10-100µL PROTECT CLASS / TYPE : Risk Class II

S. No.

: AM/PI/001

Location: UPHC, AMBEDKAR NAGAR.

S.No	· Me	easurement 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	
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% 0.60,0.20	Ok Ok Ok Ok	Tested
Formulated By: Edition Research Laboratory Endorsed By: Research team head Reviewed On: 13.05.23 Next Review: 12.05.24		Issued By:	User Depa	artment:



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

Calibration Protocol & Report for Medical Equipment

Equipment : CENTRIFUGE

MAKE

: AGS

MODEL

: CENT100

PROTECT CLASS / TYPE : Risk Class I

S. No.

: PI/CENT/001

Location: UPHC, AMBEDKAR NAGAR.

S.No	Me	asurement Parameters	Status	Remarks
1	Electrical Test Physical Condition 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 (a)Cabinet & Visible damages, if any (b) Front Panet/Top lid, buckets, motor aseembly & power cord (c)Risk of mechanical damages, if any	230 volts 0 to 5 volts No Zero ohms 10mA NA No OK	Stabilizer/UPS With in Ranges 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
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
Formulated By Edition Research Laboratory Endorsed By: Research team head Reviewed On: 13.05.23 Next Review: 12.05.24		Issued By:	User Depart	tment:



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Calibration Protocol & Report for Medical Equipment

Equipment: SEMI AUTO ANALYSER

PROTECT CLASS / TYPE : Risk Class I S. No. : ROBONIK

MAKE MODEL

: ATCD3041220RBK : UPHC, AMBEDKAR NAGAR. Location : PRIETEST TOUCH

S.No	Me	asurement Parameters	Status	Remarks
1	Electrical Test	(a)Safety Standards (range: 210-240 V) (b)Equipotential ground & Earthing	230 volts 0 to 5 volts	Stabilizer/UPS
		(c)Risk of shock/fire Hazards, if any	No	
	9 2 .	(d)Chassis & Insulation Resistance	Zero ohms	With in
		(e) Earth & Chassis Leakage Current	10mA	Ranges
		(f) Battery conditions & charging status	NA	Well
2	Physical	(a)Cabinet & Visible damages, if any	No	
	Condition Test	(b) Front Panet/Top lid, buckets, motor	ОК	
	24	aseembly & power cord		Checked OK
		(c)Risk of mechanical damages,if any	No	
3	Performance Test	(a) On /Off switch	Normal	Ok .
		(b) switch & functional tests	ОК	Perfect
	90	(c) Running test	OK .	Perfect
	V9	(d) Abnormalities	No	
		(e) Display checkup	Well	54
	.,	(f) Keypad/indicators & connector	Well	
4	Calibration Test	(a) End Point Test	Done	Perfect
		(b) Display checkups	Ok	
	55	(c) Filter selection	ОК	
		(d) Record OD	ОК	
		(e) Calculation	Well	
	•	(f) Two Point Test	Perfect	1
		(g) Kinetic Test		
		(h) Result		427
Formulated By: Edition		Issued By:	User Department:	
Research Laboratory		TISER		
Endorsed By : Research team head		A CES	5	
	ewed On: 13.05.23 Review : 12.05.24	GOBI		