



# 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

## Calibration Protocol & Report for Medical Equipment

Equipment : PIPETTE


MAKE : FINNE PIPETTE F3

MODEL : 100-1000 $\mu$ L

PROTECT CLASS /TYPE : Risk Class II

S. No. : RW13702

Location : GPHC, CHENNASAMUDRAM

S.No	Measurement Parameters	Status	Remarks
1	<b>Electrical Test</b> (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	<b>Physical Condition Test</b> (a) Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any	No No	Checked OK
3	<b>Performance Test</b> (e) Mean 99.6 $\mu$ l (f) A -0.5 $\mu$ l (g) Acc % -0.71 (h) CV% -0.36	OK OK OK Ok	
4	<b>Calibration Test</b> min volume 100 $\mu$ l max Volume 1000 $\mu$ l (e) A+or - 1.5, 5 $\mu$ l (f) S 1.5 $\mu$ l max Vol. 1000 $\mu$ l (g) Acc+ or - 1.50, 0.50 (h) CV% 0.60, 0.20	Ok Ok Ok Ok	Tested
<b>Formulated By:</b> Edition Research Laboratory		<b>Issued By:</b>	<b>User Department:</b>
<b>Endorsed By:</b> Research team head R			
Reviewed On: 30.08.23 Next Review : 29.08.24			



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## Calibration Protocol & Report for Medical Equipment

Equipment : **CENTRIFUGE**  
MAKE : LABOTECH  
MODEL : BDI-152

PROTECT CLASS /TYPE : Risk Class I  
S. No. : CH/CENT/001  
Location : GPHC, CHENNASAMUDRAM

S.No	Measurement Parameters		Status	Remarks
1	<b>Electrical Test</b>	(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	<b>Physical Condition Test</b>	(a) Cabinet & Visible damages, if any (b) Front Panet/Top lid, buckets, motor assembly & power cord (c) Risk of mechanical damages, if any	No OK No	Checked OK
3	<b>Performance Test</b>	(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	<b>Calibration Test</b>	(a) Vibration test (b) Speed regulation gradual hike/wobbling test (c) Running test with load (d) Display checkup (e) Timer test	Done Ok	Perfect
<b>Formulated By</b> Edition Research Laboratory		<b>Issued By:</b>	<b>User Department:</b>	
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## Calibration Protocol & Report for Medical Equipment

Equipment : PIPETTE



MAKE : FINNPIPETTE F3

MODEL : 10-100 $\mu$ L

PROTECT CLASS /TYPE : Risk Class II

S. No. : RW10875

Location : GPHC, CHENNASAMUDRAM

S.No	Measurement Parameters	Status	Remarks
1	<b>Electrical Test</b> (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	<b>Physical Condition Test</b> (a) Cabinet & Visible damages, if any (b) Risk of mechanical damages, if any	No No	Checked OK
3	<b>Performance Test</b> (a) Mean 99.3 $\mu$ l (b) A -0.6 $\mu$ l (c) Acc % -0.71 (d) CV% -0.36	OK OK OK Ok	
4	<b>Calibration Test</b> min volume 10 $\mu$ l max Volume 100 $\mu$ l  (a) A+or - 1.5 , 5 $\mu$ l (b) S 1.5 $\mu$ l max Volume 5 $\mu$ l (c) Acc+ or - 1.50, 0.50 (d) CV% 0.40, 0.20	Ok Ok Ok Ok	Tested
<b>Formulated By:</b> Edition Research Laboratory		<b>Issued By:</b>	<b>User Department:</b>
<b>Endorsed By :</b> Research team head head 			
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## Calibration Protocol & Report for Medical Equipment

Equipment : SEMI AUTO ANALYSER  
MAKE : ROBONIK  
MODEL : PRITEST TOUCH

PROTECT CLASS /TYPE : Risk Class I  
S. No. : ATCD0250621RBK  
Location : GPHC, CHENNASAMUDRAM

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 assembly & 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:	User Department:	
Endorsed By : Research team head				
Reviewed On: 30.08.23 Next Review : 29.08.24				