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**T. ARUN PRASAD**, M.Tech. MBA. (Ph.D)  
Managing Director  
Consultant Biomedical Engineer

GSTIN: 33APLPA 1828A1ZM

### Calibration Protocol & Report for Medical Equipment

Equipment: **MICRO PIPETTE**


Protect Class/Type: B

Make : FINNPIPETTE

S.No : RW12953

Model: 10-1000 µL

Location : **BELLAMPALLI-GPHC**

S.no	Measurement Parameters	Status	Remarks
I	<b>Electrical test</b> (a). oral method digital apparatus	Ok	Well
II	<b>Physical Condition Test</b> (a).Cabinet& Visible damages, if any (b). on/off switch, digital display, glass (c). Risk of mechanical damages, if any	No OK No	Checked ok
III	<b>Performance Test</b> (a), Glass visual clarity (b).oral sensor edge (c).Abnormalities (d). Measurement checkup (e). on/off functioning (f). deviations, if any	Normal Ok No Ok Well No	Spares replacement/ Checked & measured ok
IV	<b>Calibration Test</b> (a).digital Zero calibration: 1.zero degree(with freezer) 2.normal body temp (warmer/incubator) 3.1000 micro litre( water) (b). Measurement correlation test	Mercury zero level confirmed / Checked ok with std machine	Ensured zero level Fine
<b>Formulated By:</b> Einstein Research Laboratory		<b>Issued By:</b>	<b>User Department:</b>
<b>Endorsed By:</b> Research team head			
Reviewed On : <b>16.07.2023</b> Next Review: <b>15.01.2024</b>			

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### Calibration Protocol & Report for Medical Equipment

Equipment: **CENTRIFUGE**


Protect Class/Type: Risk class 1

Make:LABOTECH

S.No :GPHC/RPM-01

Model:Labotech

Location : **BELLAMPALLI-GPHC**

S.no	Measurement Parameters	Status	Remarks
I	<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 condition & charging status	230 volts 0 to 5 volts no zero ohms NA	Stabliser/ups  Wih in ranges
II	<b>Physical Condition Test</b> (a). Cabinet & Visible damages, if any (b). Spo2 probe, clip,extrn cable, Power cord & accessories (c). Risk of mechanical damages, if any)	No ok No	Checked ok
III	<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 & connectors	Normal Ok accurate ok Ok Well	Perfect Perfect Ok
IV	<b>Calibration Test</b> a). Vibration test (b). Speed regulation gradual hike/ (c). Running test with load (d). Display checkup (f). timer test	Done ok	Perfect
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**Calibration Protocol & Report for Medical Equipment**

Equipment: **MICROSCOPE**  
 Make:STD-9  
 Model:COSLAB/STD-9

Protect Class/Type: Risk class II/CF  
 S.NO. :STD-9  
 Location : **BELLAMPALLI-GPHC**

S.no	Measurement Parameters		Status	Remarks
I	<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 condition & charging status	235 volts 0 to 5 volts No zero ohms 10mA	Stabliser/ups  Wih in ranges
II	<b>Physical Condition Test</b>	(a). Cabinet & Visible damages, if any (b). Spo2 probe, clip,extn cable, Power cord & accessories (c). Risk of mechanical damages, if any)	No ok No	Checked ok
III	<b>Performance Test</b>	(a).Halogen light intensity (b). intensity test taken by lux meter for a particular lamp & results (c). Measurement of Lux (d). Lamp life time	Normal Ok  OK ok	Fine brightness perfect 20000 hrs Appx
IV	<b>Calibration Test</b>	(a). LED lamps intensity (b). intensity test taken by lux meter for a particular lamp & results (c). Measurement of Lux (d). Lamp life time	Ok Done  1200 lux ok	In range Peak  In range In range
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**Calibration Protocol & Report for Medical Equipment**

Equipment: **LAB ANALYSER**


Protect Class/Type: Risk class 2

Make :ROBONIK

S.No :ATCD3500321RBK

Model:prietest TOUCH

Location : **BELLAMPALLI-GPHC**

S.no	Measurement Parameters	Status	Remarks
I	<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 condition & charging status	235volts 0 to 5 volts no zero ohms 10mA	Stabilizer/UPS With In Ranges  Well
II	<b>Physical Condition Test</b> (a). Cabinet & Visible damages, if any (b). Switches, display,optics chamber, Power cord accessories (c). Risk of mechanical damages, ifany)	No ok  No	Checked ok
III	<b>Performance Test</b> (a). biochemistry test (b).photo detector test (c) Optics performance (d).Abnormalities (e). Display checkup (f). Keypad/indicators & connectors	Normal Ok  No Ok Well	Fine clarity Perfect Nm
IV	<b>Calibration Test</b> (a). Input power regulation done (b). SMPS power supply various outputs -/+3v,5v,12v calibration done (c). power supply to sourceCal -1 (d). Source lamp sensor Cal-II (range: 1250-1300ohms) (e). Detector sensitivity (range: 370-940nm)	tuned Calibrated Done 6VDC Found within range normal	1260ohms
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**Calibration Protocol & Report for Medical Equipment**

Equipment: **MICRO PIPETTE**


Protect Class/Type: B

Make : FINNPIPETTE

S.No : RW10194

Model: 10-100 µL

Location :PERIAMUTHUR-GPHC

S.no	Measurement Parameters	Status	Remarks
I	<b>Electrical test</b> (a). oral method digital apparatus	Ok	Well
II	<b>Physical Condition Test</b> (a).Cabinet& Visible damages, if any (b). on/off switch, digital display, glass (c). Risk of mechanical damages, if any	No OK No	Checked ok
III	<b>Performance Test</b> (a), Glass visual clarity (b).oral sensor edge (c).Abnormalities (d). Measurement checkup (e). on/off functioning (f). deviations, if any	Normal Ok No Ok Well No	Spares replacement/ Checked & measured ok
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