



SILICON TECHNOLOGIES

2 & 3, Devi Illam, Priya Nagar,
Telungupalayam Pirivu,
Coimbatore - 641 039, TamilNadu.

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

GSTIN : 33APLPA1828A1ZM

Calibration Protocol & Report for Medical Equipment

Equipment : **MICROSCOPE** Protect Class/Type : Risk class II/CF
Make : LABOMED S.No : PP/MIC/001
Model : Vision2000 Location : **PUDUPALAYAM - GPHC**

S.no	Measurement Parameters		Status	Remarks
I	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 condition & charging status	235volts 0 to 5volts No Zero ohms 10mA ---	Stabilizer/UPS With in ranges well
II	Physical Condition Test	(a). Cabinet & Visible damages, if any (b). Power supply unit, halogen lamps, Power cord accessories (c). Risk of mechanical damages, if any	No Ok No	Checked ok
III	Performance Test	(a). halogen lamps intensity (b). intensity test taken by lux meter for a particular lamp & results (c). Measurement of Lux/Lens range (d). Lamp life time	Normal ok ok Ok	Fine brightness perfect 20000 hrs appx
IV	Calibration Test	(a). LED lamps intensity (b). intensity test taken by lux meter for a particular lamp & results (c). Measurement of Lux/Lenses cal (d). Lamp life time	ok done 1600 lux Ok	In range peak in range in range
Formulated By : Einstein Research Laboratory		Issued By:	User Department:	
Endorsed By : Research team head		<i>Tap</i>	<i>T.Arunprasad</i>	
Reviewed On : 15.09.23 Next Review : 15.03.24		SILICON TECHNOLOGIES A Biomedical Instrumentation Company COIMBATORE - 641 039 Cell: 98652 85754, 81246 75020.		



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Calibration Protocol & Report for Medical Equipment

Equipment: **MICRO PIPETTE** Protect Class/Type : **B**
Make : **THERMO FISHER** S.No : **PP/MP/002**
Model : **MICROLUX (100-1000)ul** Location : **PUDUPALAYAM - GPHC**

S.no	Measurement Parameters		Status	Remarks
I	Electrical test	(a). oral method digital apparatus	ok	well
II	Physical Condition Test	(a). Cabinet & Visible damages, if any (b). on/off switch, digital display, glass tube visual checkups (c). Risk of mechanical damages, if any	No Ok No	Checked ok
III	Performance Test	(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	Calibration Test	(a). digital zero calibration tested with i. zero degree (with freezer) ii. normal body temp (warmer/incubator) iii. 1000 micro ml (water) (b). Measurement correlation test	zero level confirmed/ Checked ok with std machine	ensured zero level. fine
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Calibration Protocol & Report for Medical Equipment

Equipment: **CENTRIFUGE** Protect Class/Type : Risk class I
Make : LABOTECH S.No : PP/CEN/001
Model : BD152 Location : **PUDUPALAYAM - GPHC**

S.no	Measurement Parameters	Status	Remarks
I	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 condition & charging status	230volts 0 to 5volts No Zero ohms 10mA NA	Stabilizer/UPS With in ranges well
II	Physical Condition Test (a). Cabinet & Visible damages, if any (b). Front panel/top lid, buckets, motor assembly & Power cord (c). Risk of mechanical damages, if any	No Ok No	 Checked ok
III	Performance Test (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 No Well Well	ok perfect perfect
IV	Calibration Test (a). Vibration test (b). Speed regulation gradual hike/wobbling tests (c). Running test with load (d). Display checkup (f). timer test	Done ok ---	perfect 3800 RPM
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Calibration Protocol & Report for Medical Equipment

Equipment : **BIO CHEMISTRY ANALYSER** Protect Class/Type : Risk class II/CF

Make : ROBONIK S.No : ATCD1010519RBK

Model : PRIESTEST TOUCH Location : **PUDUPALAYAM - GPHC**

S.no	Measurement Parameters	Status	Remarks
I	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 condition & charging status	230volts 0 to 5volts No Zero ohms 10mA -	Stabilizer/UPS With in ranges well
II	Physical Condition Test (a). Cabinet & Visible damages, if any (b). Switches, display, optics chamber, Power cord accessories (c). Risk of mechanical damages, if any	No Ok No	 Checked ok
III	Performance Test (a). biochemistry test (b). photo detector test (c). Optics performance (d). Abnormalities (e). Display checkup (f). Keypad/indicators & connectors	Normal Ok /wave length No Ok Well	Fine Clarity perfect nm
IV	Calibration Test (a). Input power regulation done (b). SMPS power supply various outputs -/+3V,5V,12V calibration done (c). Power supply to source Cal -I (d). Source lamp Sensor Cal-II (range: 1250-1300ohms) (e). Detector sensitivity (range: 370-940nm)	Tuned calibrated done 6VDC Done 1285 ohms Normal	 tuned in range well
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Calibration Protocol & Report for Medical Equipment

Equipment: **MICRO PIPETTE** Protect Class/Type : **B**
Make : **THERMO FISHER** S.No : **PP/MP/001**
Model : **MICROLUX(5-50)ul** Location : **PUDUPALAYAM - GPHC**

S.no	Measurement Parameters		Status	Remarks
I	Electrical test	(a). oral method digital apparatus	ok	well
II	Physical Condition Test	(a). Cabinet & Visible damages, if any (b). on/off switch, digital display, glass tube visual checkups (c). Risk of mechanical damages, if any	No Ok No	Checked ok
III	Performance Test	(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	Calibration Test	(a). digital zero calibration tested with i. zero degree (with freezer) ii. normal body temp (warmer/incubator) iii. 50 micro ml (water) (b). Measurement correlation test	zero level confirmed/ Checked ok with std machine	ensured zero level. fine
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