

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			Remarks
1	Electrical Test	(b). Equip (c). Risk of (d). Chass (e). Earth	y Standards (range: 210-240 V) cotential ground & Earthing of shock/fire Hazards, if any sis&Insulation Resistance a & Chassis Leakage Current ry condition & charging status	235volts 0 to 5volts No Zero ohms 10mA	Stabilizer/UPS With in ranges well
11	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
m	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
Formu	ulated By : Einstein atory	Research	Issued By:	User Departm	nent:
Endorsed By : Say		T.Arunprasad	_ =		
	wed On : 15.09.23 Review : 15.03.24		RILICON TECHNOLOGIES Biomedical Instrumentation Company		

A Biomedical Instrumentation Company
COIMBATORE - 641 039
Cell: 98652 85754, 81246 75020.

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T. ARUN PRASAD, M.Tech., MBA., (Ph.D)

Managing Director
Consultant Biomedical Engineer

GSTIN: 33APLPA1828A1ZM

Calibration Protocol & Report for Medical Equipment

Equipment: MICRO PIPETTE

Protect Class/Type :

В

Make

: THERMO FISHER

S.No :

PP/MP/002

Model

: MICROLUX (100-1000)ul

Location

PUDUPALAYAM - GPHC

S.no	N	Measurement Parameters		Status ok	Remarks well
1	Electrical test (a). oral method d		method digital apparatus		
II	Physical Condition Test	(b). on/of tube visu	net & Visible damages, if any iff switch, digital display, glass al checkups of mechanical damages, if any	No Ok	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
Formi	ulated By : Einstein	Research	Issued By:	User Departi	ment:
Resea	rsed By : orch team head wed On : 15.09.23	<i>T</i>	SILICON TECHNOLOG	ares 1	
	Review : 15.09.24		A Biomedical Instrumentation Co	mpany	

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T. ARUN PRASAD, M.Tech., MBA., (Ph.D)

Managing Director Consultant Biomedical Engineer GSTIN: 33APLPA1828A1ZM

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

Electrical Test		Standards (range: 210-240 V)	230volts	Stabilizer/LIDS
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	
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
Performance Test	(a). On/off switch (b).Speed regulator switch & functional tests (c). Running test (d).Abnormalities (e). Display checkup		Normal ok accurate Ok No Well Well	ok perfect perfect
Calibration Test	(a). Vibration test (b). Speed regulation gradual hike/ wobbling tests (c). Running test with load (d). Display checkup		Done ok 	perfect 3800 RPM
ated By: Einstein tory	Research	Issued By:	User Depar	tment:
ed By : ch team head	Tap			
red On : 15.09.23 eview : 15.03.24	A	comedical Instrumentation Company		
	Performance Test Calibration Test ated By : Einstein cory ed By : ch team head ed On : 15.09.23	Physical Condition Test (a). Cabin (b). Front assen (c). Risk o Performance Test (a). On/or (b). Speed function (c). Runni (d). Abnor (e). Displa (f). Keypa (b). Speed wobb (c). Runni (d). Displa (f). timer ated By: Einstein Research cory ed By: ch team head ed On: 15.09.23 eview: 15.03.24	(a). Cabinet & Visible damages, if any (b). Front panel/top lid, buckets, motor assembly & Power cord (c). Risk of mechanical damages, if any Performance (a). On/off switch (b). Speed regulator switch & functional tests (c). Running test (d). Abnormalities (e). Display checkup (f). Keypad/indicators & connectors Calibration Test (a). Vibration test (b). Speed regulation gradual hike/wobbling tests (c). Running test with load (d). Display checkup (f). timer test ated By: Einstein Research lony ated By: Ch team head SILICON: Programme Collections SILICON: Program	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 Performance (a). On/off switch Test (b). Speed regulator switch & ok accurate (c). Running test (d). Abnormalities (e). Display checkup (f). Keypad/indicators & connectors (a). Vibration test (b). Speed regulation gradual hike/wobbling tests (c). Running test with load (d). Display checkup (f). timer test ated By: Einstein Research Issued By: SILICON: FROM THOM TOTELS A Biomedical Instrumentation Company COMBATORE - 641 039

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

Consultant Biomedical Engineer

GSTIN: 33APLPA1828A1ZM

Calibration Protocol & Report for Medical Equipment

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

Make : ROBONIK

S.No

: ATCD1010519RBK

Model

: PRIETEST TOUCH

Location

: PUDUPALAYAM - GPHC

S.no	Measurement Parameters			Status	Remarks
1	Electrical Test	(b). Equipo (c). Risk of (d). Chassi (e). Earth	Standards (range: 210-240 V) otential ground & Earthing shock/fire Hazards, if any is&Insulation Resistance & Chassis Leakage Current y 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 sourceCal—I (d). Source lamp Sensor Cal-II (range: 1250-1300ohms) (e). Detector sensitivity (range: 370-940nm)		Tuned calibrated done 6VDC Done 1285 ohms	tuned in range well
Formulated By : Einstein Research Laboratory		Issued By:	User Department:		
Endo	rsed By : arch team head	Top	SILICON TECHNOLOGIE A Biomedical Instrumentation Comp	pany	
	wed On : 15.09.23 Review : 15.03.24		A Biomedical Instrumentation Company Company Report 198652 85754, 81246 750	20	

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

GSTIN: 33APLPA1828A1ZM

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	N	Status ok	Remarks well	
1	Electrical test (a). oral method digital apparatus			
11	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
111	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
Formu labora	lated By : Einstein tory	Research Issued By:	User Depart	ment:
Endors Resear Review	rch team head ved On : 15.09.23 eview : 15.03.24	SILICON TECHNOLOGIES Biomedica Nestransian Company COIMBATORE - 641 039 Cell: 08652 65734, 81248 75020		

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