



CALIBRATION CERTIFICATE

1.CUSTOMER :- Satav Pathology Laboratory Near Dr. Pharande Dental Hopital Opposite lokmanya Care Hospital , Chinchwad Railway Station Marg , Chinchwad Pune-411033	Page No. :- 1 of 1 Certificate No. :- GTS/200612/02-004 Date of Received :- 12.06.2020 Date of Calibration :- 12.06.2020 Next Calibration Due On :- 11.06.2021 Issue Date :- 15.06.2020 Calibration method No. :- MECH-WI-07 ULR No :- CC295720000005966F
Ambient Temp. (°C) :- 28.0 Relative Humidity (%RH) :- 50 Location of calibration :- On Site Condition of Item :- Ok	

2. Description of Item	
Name :- Centrifuge Model No :- SL/BIO/CF-02 Make :- Remi Type :- Digital	Range :- 0 To 4500 RPM Least Count :- 10 RPM Location :- Biochemistry 2500,3500

3.Details of Equipment used for calibration				
Name	Certificate No.	Certified By	ID No.	Calibration Validity
Digital Tachometer	NI/2006/002/002	Nishitronics Instrumentation	GTS/TM/01	01.06.2021

*Mechanical Calibration				
4.Calibration Results :-				
Calibration Points RPM	Standard Reading RPM	UUC Reading RPM	Error in RPM	Expanded Uncertainty in ± %
1000	1002	1000	-2	4.20
2000	2005	2000	-5	0.40
2500	2509	2500	-9	0.40
3500	3515	3500	-15	0.40
4000	4019	4000	-19	0.40

Note:
 1)The reported uncertainty is the expanded uncertainty in measurement obtained by multiplying the standard uncertainty by the coverage factor $k=2$, which corresponds to a coverage probability of approximately 95.45% for normal distribution
 2) This certificate refers only to the particular item submitted for calibration. UUC stands for Unit Under Calibration.
 3) The calibration results reported in the certificate are valid at the time of and under the stated conditions of measurement.
 4) Calibration point were selected as per customer specifications.
 5) This certificate shall not be reproduced, except in full unless written permission for the publication of an approved abstract has been obtained from the Technical Manager of "Global Technical Services, Pune".

Calibrated By

 Calibration Engineer
 D Ballal
 RF-55/01



Approved By

 Technical Manager
 Swapnil Bhagwat

End of Certificate



GLOBAL TECHNICAL SERVICES

Sec. No.25, Plot No.49/3, L.I.G. Colony, Pradhikaran, Nigdi, Pune - 411044

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CERTIFICATE NO. : CC-2957

CALIBRATION CERTIFICATE

1.CUSTOMER	:-	Page No.	:- 1 of 1
Satav Pathology Laboratory		Certificate No.	:- GTS/200612/02-002
Near Dr. Pharande Dental Hospital		Date of Received	:- 12.06.2020
Opposite lokmanya Care Hospital , Chinchwad		Date of Calibration	:- 12.06.2020
Railway Station Marg , Chinchwad		Next Calibration Due On	:- 11.06.2021
Pune-411033		Issue Date	:- 15.06.2020
Ambient Temp. (°C)	:- 24.1	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH)	:- 50	ULR No	:- CC295720000005964F
Barometric Pressure (mbar)	:- 942.9		
Location of calibration	:- In Lab		
Condition of Item	:- Ok		

2. Description of Item

Name	:- Micropipette	Range	:- 100 To 1000 µl
ID No	:- SL/BIO/MP-01	Least Count	:- 5 µl
Make	:- ---	Location	:- Biochemistry
Type	:- Variable		

3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/030620/004	Nishitronics Instrumentation	GTS/WB-01	02.06.2021

*Mechanical Calibration

4.Calibration Results

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
100	99.6392	100	0.3608	1.50
500	498.1653	500	1.8347	1.50
1000	996.3166	1000	3.6834	1.50

Note:

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Calibrated By

D Ballal

RF-51/00



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Approved By

Swarnil Bhagawat

Technical Manager

Email : globaltechnical007@gmail.com



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1. CUSTOMER :-

Satav Pathology Labortory
Near Dr. Pharande Dental Hopital
Opposite lokmanya Care Hospital , Chinchwad
Railway Station Marg , Chinchwad
Pune-411033

Page No. :- 1 of 1
Certificate No. :- GTS/200612/02-008
Date of Received :- 12.06.2020
Date of Calibration :- 12.06.2020
Next Calibration Due On :- 11.06.2021
Issue Date :- 15.06.2020
Calibration method No. :- MECH-WI-06
ULR No :- CC295720000005970F

Ambient Temp. (°C) :- 24.4
Relative Humidity (%RH) :- 52
Barometric Pressure (mbar) :- 944.8
Location of calibration :- In Lab
Condition of Item :- Ok

2. Description of Item

Name :- Micropipette Range :- 100 To 1000 µl
ID No :- SL/BIO/MP-02 Least Count :- 5.0 µl
Make :- Erba Bionit Location :- Biochemistry
Type :- Variable

3. Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/030620/004	Nishitronics Instrumentation	GTS/WB-01	02.06.2021

*Mechanical Calibration

4. Calibration Results :-

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
100	99.6148	100	0.3852	1.50
500	498.0153	500	1.9847	1.50
1000	996.1641	1000	3.8359	1.50

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Calibration Engineer
D Ballal



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Technical Manager
Swapnil Bhagawat

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Satav Pathology Labortory
Near Dr. Pharande Dental Hospital
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Railway Station Marg , Chinchwad
Pune-411033

Page No. :- 1 of 1
Certificate No. :- GTS/200612/02-036
Date of Received :- 12.06.2020
Date of Calibration :- 12.06.2020
Next Calibration Due On :- 11.06.2021
Issue Date :- 15.06.2020
Calibration method No. :- MECH-WI-06
ULR No :- CC295720000005991F

Ambient Temp. (°C) :- 23.7
Relative Humidity (%RH) :- 50
Barometric Pressure (mbar) :- 945.0
Location of calibration :- In Lab
Condition of Item :- Ok

2. Description of Item

Name :- Micropipette
Id No :- SL/ENDO/MP-03
Make :- ---
Type :- Variable
Range :- 0 To 1000 µl
Least Count :- 5 µl
Location :- Endocrinology

3. Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/030620/004	Nishitronics Instrumentation	GTSWB-01	02.06.2021

*Mechanical Calibration

4. Calibration Results :-

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
100	99.6255	100	0.3745	1.50
500	498.1044	500	1.8956	1.50
1000	996.4255	1000	3.5745	1.50

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Calibrated By

D.B

Calibration Engineer
D Ballal



Approved By

Sw

Technical Manager
Swapnil Bhagawat

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End of Certificate



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Ambient Temp. (°C)	:- 23.8	Certificate No.	:- GTS/200612/02-006
Relative Humidity (%RH)	:- 49	Date of Received	:- 12.06.2020
Barometric Pressure (mbar)	:- 943.5	Date of Calibration	:- 12.06.2020
Location of calibration	:- In Lab	Next Calibration Due On	:- 11.06.2021
Condition of Item	:- Ok	Issue Date	:- 15.06.2020
		Calibration method No.	:- MECH-WI-06
		ULR No	:- CC295720000005968P

2. Description of Item			
Name	:- Micropipette	Range	:- 5 To 50 µl
Id No	:- SL/BIO/MP-04	Least Count	:- 0.5 µl
Make	:- Erba Bionit	Location	:- Biochemistry
Type	:- Variable		

3.Details of Equipment used for calibration				
Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/030620/004	Nishitronics Instrumentation	GTS/WB-01	02.06.2021

*Mechanical Calibration

4.Calibration Results :-				
Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
5	4.9805	5	0.0195	1.50
25	24.9117	25	0.0883	1.50
50	49.8224	50	0.1776	1.50

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- 6) 5ul not in NABL scope

Calibrated By

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Calibration Engineer
D Ballal



Approved By

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Technical Manager
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Opposite lokmanya Care Hospital , Chinchwad		Date of Calibration	:- 12.06.2020
Railway Station Marg , Chinchwad		Next Calibration Due On	:- 11.06.2021
Pune-411033		Issue Date	:- 15.06.2020
Ambient Temp. (°C)	:- 23.8	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH)	:- 49	ULR No	:- CC295720000005969P
Barometric Pressure (mbar)	:- 942.8		
Location of calibration	:- In Lab		
Condition of Item	:- Ok		

2. Description of Item

Name	:- Micropipette	Range	:- 5 To 50 µl
Id No	:- SL/BIO/MP-05	Least Count	:- 0.5 µl
Make	:- Erba Bionit	Location	:- Biochemistry
Type	:- Variable		

3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/030620/004	Nishitronics Instrumentation	GTS/WB-01	02.06.2021

*Mechanical Calibration

4.Calibration Results

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
5	4.9818	5	0.0182	1.50
25	24.9039	25	0.0961	1.50
50	49.8079	50	0.1921	1.50

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