



CALIBRATION CERTIFICATE

1.CUSTOMER	:-	Page No.	:- 1 of 1
SP HITECH PATHOLOGY LABORATORY		SRF No	GTS/210907/01
Trimurti Plaza, Near Pavana Sahakari Bank,		Certificate No.	:- GTS/220525/02- 006
Somatane Phata Talegaon Dabhade Somatane Phata,		Date of Received	:- 25.05.2022
Talegaon Dabhade, PCMC, Pune, Maharashtra 410506		Date of Calibration	:- 25.05.2022
		Next Calibration Due On	:- 24.05.2023
		Issue Date	:- 27.05.2022
Ambient Temp. (°C)	:- 23± 4	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH)	:- 30 to 75	ULR No	:- CC298722000004115F
Barometric Pressure (mbar)	:- 942.2		
Location of calibration	:- In Lab		
Condition of Item	:- Ok		

2. Description of Item			
Name	:- Micropipette	Range	:- 100 To 1000 µl
Id No	:- SPHL/EQ/MPT/08	Least Count	:- 1 µl
Make	:- Thermoscientific	Location	:- Biochimstery
Type	:- Variable	Sr No	:- QW03862

3.Details of Equipment used for calibration				
Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/010621/001	Nishitronics Instrumentation	GTS/WB-01	31.05.2022

*Mechanical Calibration				
4.Calibration Results				
Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
100	99.6478	100	0.3522	4.30
500	498.1467	500	1.8533	4.30
1000	996.4442	1000	3.5558	4.30

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 P.T Calibration Engineer Poonam.T		Approved By Technical Manager Swapnil Bhagawat
End of Certificate		

RF-51/00



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SP HITECH PATHOLOGY LABORATORY		SRF No	GTS/210907/01
Trimurti Plaza,Near Pavana Sahakari Bank,		Certificate No.	:- GTS/220525/02- 008
Somatane Phata Talegaon Dabhade Somatane Phata,		Date of Received	:- 25.05.2022
Talegaon Dabhade, PCMC, Pune, Maharashtra 410506		Date of Calibration	:- 25.05.2022
		Next Calibration Due On	:- 24.05.2023
		Issue Date	:- 27.05.2022
Ambient Temp. (°C)	:- 23± 4	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH)	:- 30 to 75	ULR No	:- CC298722000004117F
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	:- SPHL/EQ/MPT/06	Least Count	:- 0.1 µl
Make	:- Thermoscientific	Location	:- Biochimstery
Type	:- Variable	Sr No	:- GT29018

3.Details of Equipment used for calibration				
Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/010621/001	Nishitronics Instrumentation	GTS/WB-01	31.05.2022

*Mechanical Calibration				
4.Calibration Results				
Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
10	9.9632	10	0.0368	4.30
30	29.8816	30	0.1184	4.30
50	49.8101	50	0.1899	4.30

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Calibrated By
 P.T
 Calibration Engineer
 Poonam.T


 End of Certificate

Approved By

 Technical Manager
 Swapnil Bhagawat

RF-51/00



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SP HITECH PATHOLOGY LABORATORY		SRF No	GTS/210907/01
Trimurti Plaza, Near Pavana Sahakari Bank,		Certificate No.	-: GTS/220525/02- 007
Somatane Phata Talegaon Dabhade Somatane Phata,		Date of Received	-: 25.05.2022
Talegaon Dabhade, PCMC, Pune, Maharashtra 410506		Date of Calibration	-: 25.05.2022
Ambient Temp. (°C)	-: 23± 4	Next Calibration Due On	-: 24.05.2023
Relative Humidity (%RH)	-: 30 to 75	Issue Date	-: 27.05.2022
Barometric Pressure (mbar)	-: 942.2	Calibration method No.	-: MECH-WI-06
Location of calibration	-: In Lab	ULR No	-: CC298722000004116F
Condition of Item	-: Ok		

2. Description of Item			
Name	-: Micropipette	Range	-: 20 To 200 µl
Id No	-: SPHL/EQ/MPT/07	Least Count	-: 0.2 µl
Make	-: Thermoscientific	Location	-: Biochimstery
Type	-: Variable	Sr No	-: HH49118
	0		

3.Details of Equipment used for calibration				
Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/010621/001	Nishitronics Instrumentation	GTS/WB-01	31.05.2022

*Mechanical Calibration				
4.Calibration Results				
Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
20	19.9282	20	0.0718	4.30
100	99.6018	100	0.3982	4.30
200	199.2007	200	0.7993	4.30

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SP HITECH PATHOLOGY LABORATORY		SRF No	GTS/210907/01
Trimurti Plaza,Near Pavana Sahakari Bank,		Certificate No.	- GTS/220525/02- 009
Somatane Phata Talegaon Dabhade Somatane Phata,		Date of Received	- 25.05.2022
Talegaon Dabhade, PCMC, Pune, Maharashtra 410506		Date of Calibration	- 25.05.2022
		Next Calibration Due On	- 24.05.2023
		Issue Date	- 27.05.2022
Ambient Temp. (°C)	- 23± 4	Calibration method No.	- MECH-WI-06
Relative Humidity (%RH)	- 30 to 75	ULR No	- -
Barometric Pressure (mbar)	- 942.2		
Location of calibration	- In Lab		
Condition of Item	- Ok		

2. Description of Item

Name	- Micropipette	Range	- 5 µl
Id No	- SPHL/EQ/MPT/09	Least Count	- Fixed µl
Make	- Grand 6	Location	- Biochimstery
Type	- Fixed	Sr No	- ---

3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/010621/001	Nishitronics Instrumentation	GTS/WB-01	31.05.2022

*Mechanical Calibration

4.Calibration Results

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
5	4.9813	5	0.0187	1.50

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P.T

Calibration Engineer

Poonam.T

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End of Certificate

Approved By

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Technical Manager

Swapnil Bhagawat

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