



# GLOBAL TECHNICAL SERVICES

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

Email : globaltechnical007@gmail.com

Mob : 9921239827 / 7276470703 / 9028888728

## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b> :- <b>SHREE DIAGNOSTIC CENTRE</b> Shree Hospital, Murbad Road, KALYAN	Page No. :- 1 of 1 SRF No :- GTS/220804/01 Certificate No. :- GTS/220804/01- 001 Date of Received :- 04.08.2022 Date of Calibration :- 04.08.2022 Next Calibration Due On :- 03.02.2023 Issue Date :- 12.08.2022 Calibration method No. :- MECH-WI-06 ULR No :- --
Ambient Temp. (°C) :- 23± 4 Relative Humidity (%RH) :- 30 to 75 Barometric Pressure (mbar) :- 943.9 Location of calibration :- In Lab Condition of Item :- Ok	

### 2. Description of Item

Name :- Micropipette	Range :- 5 µl
Id No :- SDC/PIP/01	Least Count :-
Make :- Finnpiquette	Location :- Lab
Type :- Fixed	Sr No :- GH 57449
	Dept. :- Pathology

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/300522/001	Nishitronics Instrumentation	GTS/WB-01	29.05.2023

### \*Mechanical Calibration

4.Calibration Results :-	Standard Reading	Set Value on UUC	Error in	Expanded
Calibration Points	µl	µl	µl	Uncertainty in ± µl
5	4.9823	5	0.0177	1.50

#### 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

SwB  
Technical Manager  
Swapnil Bhagawat

End of Certificate

RF-51/00



## CALIBRATION CERTIFICATE

<b>1.CUSTOMER</b> :-	Page No.	:- 1 of 1
<b>SHREE DIAGNOSTIC CENTRE</b>	SRF No	:- GTS/220804/01
Shree Hospital, Murbad Road, KALYAN	Certificate No.	:- GTS/220804/01- 002
	Date of Received	:- 04.08.2022
	Date of Calibration	:- 04.08.2022
	Next Calibration Due On	:- 03.02.2023
	Issue Date	:- 12.08.2022
Ambient Temp. (°C) :- 23± 4	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH) :- 30 to 75	ULR No	:- CC295722000008046F
Barometric Pressure (mbar) :- 943.1		
Location of calibration :- In Lab		
Condition of Item :- Ok		

### 2. Description of Item

Name :- Micropipette	Range :-	10 µl
Id No :- SDC/PIP/02	Least Count :-	--
Make :- Finnipette	Location :-	Lab
Type :- Fixed	Sr No :-	F 94565
	Dept. :-	Pathology

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/300522/001	Nishitronics Instrumentation	GTS/WB-01	29.05.2023

### \*Mechanical Calibration

#### 4.Calibration Results :-

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
10	9.9628	10	0.0372	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
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Technical Manager  
Swapnil Bhagawat



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<b>1.CUSTOMER</b>	:-	Page No.	:- 1 of 1
<b>SHREE DIAGNOSTIC CENTRE</b>		SRF No	:- GTS/220804/01
Shree Hospital, Murbad Road, KALYAN		Certificate No.	:- GTS/220804/01- 003
		Date of Received	:- 04.08.2022
		Date of Calibration	:- 04.08.2022
		Next Calibration Due On	:- 03.02.2023
		Issue Date	:- 12.08.2022
		Calibration method No.	:- MECH-WI-06
		ULR No	:- CC295722000008047F
Ambient Temp. (°C)	:- 23± 4		
Relative Humidity (%RH)	:- 30 to 75		
Barometric Pressure (mbar)	:- 942.0		
Location of calibration	:- In Lab		
Condition of Item	:- Ok		

<b>2. Description of Item</b>		Range	:- 5 to 50 µl
Name	:- Micropipette	Least Count	:- 1
Id No	:- SDC/PIP/03	Location	:- Lab
Make	:- Biosystem	Sr No	:- VF0168/6
Type	:- Variable	Dept.	:- Pathology

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/300522/001	Nishitronics Instrumentation	GTS/WB-01	29.05.2023

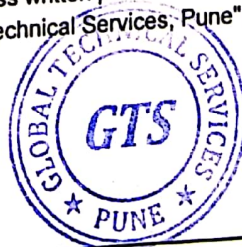
### \*Mechanical Calibration

4.Calibration Results		Standard Reading	Set Value on UUC	Error in	Expanded
Calibration Points		µl	µl	µl	Uncertainty in ± µl
µl					
10		9.9637	10	0.0363	4.30
25		24.9119	25	0.0881	4.30
50		49.8126	50	0.1874	4.30

- Note:**
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End of Certificate



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<b>1.CUSTOMER</b> :-	SHREE DIAGNOSTIC CENTRE Shree Hospital, Murbad Road, KALYAN	Page No.	:- 1 of 1
		SRF No	:- GTS/220804/01
		Certificate No.	:- GTS/220804/01- 004
		Date of Received	:- 04.08.2022
		Date of Calibration	:- 04.08.2022
		Next Calibration Due On	:- 03.02.2023
		Issue Date	:- 12.08.2022
Ambient Temp. (°C)	:- 23± 4	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH)	:- 30 to 75	ULR No	:- CC295722000008048F
Barometric Pressure (mbar)	:- 944.1		
Location of calibration	:- In Lab		
Condition of Item	:- Ok		

### 2. Description of Item

Name	:- Micropipette	Range	:- 20 to 200 µl
Id No	:- SDC/PIP/04	Least Count	:- 0.2 µl
Make	:- Finnpiquette	Location	:- Lab
Type	:- Variable	Sr No	:- PW 00087
		Dept.	:- Pathology

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/300522/001	Nishitronics Instrumentation	GTS/WB-01	29.05.2023

### \*Mechanical Calibration

#### 4.Calibration Results :-

Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ± µl
20	19.9251	20	0.0749	4.30
100	99.6082	100	0.3918	4.30
200	199.2404	200	0.7596	4.30

#### Note:

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<b>1.CUSTOMER</b>	:-	Page No.	:- 1 of 1
<b>SHREE DIAGNOSTIC CENTRE</b>		SRF No	:- GTS/220804/01
Shree Hospital, Murbad Road, KALYAN		Certificate No.	:- GTS/220804/01- 005
		Date of Received	:- 04.08.2022
		Date of Calibration	:- 04.08.2022
		Next Calibration Due On	:- 03.02.2023
		Issue Date	:- 12.08.2022
Ambient Temp. (°C)	:- 23± 4	Calibration method No.	:- MECH-WI-06
Relative Humidity (%RH)	:- 30 to 75	ULR No	:- CC295722000008049F
Barometric Pressure (mbar)	:- 943.9		
Location of calibration	:- In Lab		
Condition of Item	:- Ok		

<b>2. Description of Item</b>		Range	:- 100 to 1000 µl
Name	:- Micropipette	Least Count	:- 1 µl
Id No	:- SDC/PIP/05	Location	:- Lab
Make	:- Finnpiette	Sr No	:- JW 05397
Type	:- Variable	Dept.	:- Pathology

### 3.Details of Equipment used for calibration

Name	Certificate No.	Certified By	ID/Sr. No.	Calibration Validity
Weighing Balance	NI/GTS/300522/001	Nishitronics Instrumentation	GTS/WB-01	29.05.2023

### \*Mechanical Calibration

4.Calibration Results :-				
Calibration Points µl	Standard Reading µl	Set Value on UUC µl	Error in µl	Expanded Uncertainty in ±
100	99.6074	100	0.3926	4.30
500	498.0703	500	1.9297	4.30
1000	996.4434	1000	3.5566	4.30

#### Note:

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Calibration Engineer

Poonam.T

RF-51/00



Approved By

Signature

Technical Manager

Swapnil Bhagawat

End of Certificate

### CALIBRATION CERTIFICATE

<b>CUSTOMER :-</b> Global Technical Services Sec. No-25, Plot No-19/3 LIG Colony Pradhikaran Nigdi Pune-411014 Amb. Temp :- 23 ± 5 °C Rh. :- 50 ± 10 % Location of calibration :- SITE Characteristic and Condition of items :- OK	Page No. :- 1 of 2 Discipline :- Mechanical ULR No. :- ULR-CC2294220000024031 Certificate No. :- NI/GTS/300522/001 Date of issue :- 01/06/2022 Date of receipt :- 30/05/2022 Date of calibration :- 30/05/2022 Cal. Req. No. :- NI/GTS/300522/001 Next Due Date :- 29/05/2023 Parameter :- MASS Calibration method no :- NI / CP / M / 02
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**Details of Items**

Name :- Dig. Weighing Balance ID. NO. :- GTS/WB-01 Make :- Mettler Sr. No. :- B850919896 Model :- MS205DU	Range :- 0 to 200 g Least Count :- 0.01 mg & 0.1 mg Loc :- -- Accuracy :- Class A
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**Details of Equipment used for Calibration**

Description :- Set of Weight From 1 mg To 200 g  
 Sr. No. / ID. No. :- NI/WE1/01  
 Calibrated By :- LCGC Trucal and Services LLP  
 Certificate No. :- TC/826G/2022  
 Validity :- 21/01/2025

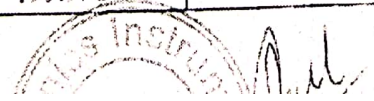
#### OBSERVATION

Cal. Point	Mass of Ref. Weight g	UUC Reading g	Correction In g	Expanded Uncertainty In ± g
1 mg	0.0009994	0.00101	0.000011	0.000022
10 mg	0.0100013	0.01000	-0.000001	0.000022
100 mg	0.1000030	0.10001	0.000007	0.000022
200 mg	0.1999992	0.20001	0.000011	0.000022
500 mg	0.5000050	0.50001	0.000005	0.000022
1 g	0.9999996	1.00002	0.000020	0.000022
2 g	1.9999985	2.00001	0.000012	0.000022
5 g	4.999995	4.99997	-0.000025	0.000022
10 g.	9.999995	9.99998	-0.000015	0.000022
50 g	50.00001	50.00005	0.000040	0.000022
100 g	100.00000	99.9996	-0.000100	0.0001
200 g	200.00001	199.9989	-0.001110	0.0001

UUC :- Unit Under Calibration

**Repeatability Check ( For Max ) : 230 g**

Cal. Point	Mass of Ref. Weight g	Observation Sr. No.	UUC Reading g	Standard Deviation in g
200 g	200.00001	1	199.9989	0.000032
		2	199.9989	
		3	199.9989	
		4	199.9989	
		5	199.9989	
		6	199.9990	
		7	199.9989	
		8	199.9989	
		9	199.9989	
		10	199.9989	



**Repeatability Check ( For 1/2 Max ) : 115 g**

Cal. Point	Mass of Ref. Weight g	Observation Sr. No.	UUC Reading g	Standard Deviation In g
100 g	100.00000	1	99.9996	0.000042
		2	99.9996	
		3	99.9996	
		4	99.9995	
		5	99.9996	
		6	99.9996	
		7	99.9996	
		8	99.9996	
		9	99.9995	
		10	99.9996	

**Eccentric or Off-Centre Loading ( 1/2 Max or 1/3 Max ) :**

Cal. Point	Mass of Ref. Weight g	Position of Load	UUC Reading g	Eccentric Loading g
100 g	100.00000	Front Right	99.9996	0.000100
		Front Back	99.9996	
		Center	99.9996	
		Back Right	99.9996	
		Back Left	99.9995	

Limit Of Performance(F):- 0.000144 g

The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k = 2.

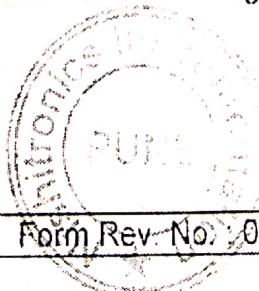
**Remarks :-**

- 1) Result are related only to the item calibrated .
- 2) This certificate refers only to the particular items submitted for calibration .
- 3) This certificate shall not be reproduced except in full without our prior permission in writing.
- 4) The calibration results reported in this particular certificate are valid at the time of an under stated condition of measurement.
- 5) Standard used for calibration were traceable to National / International standard.
- 6) Readings given above are as on received condition of an instrument.
- 7) The above results are used for scientific and R&D purpose only and should not used for trade and commercial use.
- 8) Standard referred :- OIML R-76
- 9) Density of Standard Weights:-  $7950 \pm 50 \text{ kg/m}^3$
- 10) Eccentricity is difference between reading when the test is weight moved to various positions on pan

Calibrated by

*(Signature)*

(V.D.Mulik)  
 ( Technical Assistant )



*(Signature)*  
 Authorized Signatory  
 (V.B.Hingmire) / ( S.B.Hingmire )  
 ( Technical Manager )

Form No :- NI/F/7.8/M/04

Form Rev. No :- 0

Effective Form Date: 20/11/2019

Issue No: 03

Issue Date: 20/11/2019