

# KAILTECH

## Test & Research Centre Pvt. Ltd.

### CALIBRATION CERTIFICATE

**KTRC/QF/0708/04**

Page No 1 of 1

<b>Certificate No</b>	KTRC/2202R000609	<b>Date Of Calibration</b>	12/02/2022
<b>Date Of Receipt</b>	09/02/2022	<b>Suggested Due Date</b>	12/02/2023
<b>ULR No.</b>	CC234822000000472F	<b>Date Of Issue</b>	14/02/2022

Name And Address of Customer	Details Of Unit Under Calibration			
RELIANCE INDUSTRIES LTD. Shahdol, Madhya Pradesh, Shahdol--	<b>Name of Equipment</b>	Micro Pipette		
	<b>Make</b>	LifeX	<b>Range</b>	0 to 100 µl
	<b>Model</b>	N.A	<b>Least Count</b>	1 µl
	<b>SR. No.</b>	N.A	<b>Condition of UUC</b>	Satisfactory
	<b>Id No.</b>	N.A	<b>Calibration Performed At</b>	Lab

<b>Environmental Condition</b>	<b>Temperature in °C</b>	<b>Humidity in %</b>
	23±1.5	55±20

<b>Calibration Procedure/Standard</b>	KTRC-CAL(BM)-SOP-10/ISO 8655-6
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#### DETAIL OF REFERENCE STANDARD USED FOR CALIBRATION

Reference Standard	Sr.No	I.D No.	Certificate No.	Valid Upto
Analytical Weighing Balance	D450041989	KTRC-CAL-EQ-077	2021/377/00001/31415	13/04/2022

#### CALIBRATION RESULT

Sr. No.	UUC Reading (µl)	Observed Reading On Master (µl)	Deviation (µl)	Expanded Uncertainty in (µl)
1	10	9.91557	0.08443	0.32
2	50	50.10975	-0.10975	0.32
3	100	100.29978	-0.29978	0.32

#### REMARKS:-

- This Certificate refers only to the item calibrated.
- UUC - Unit Under Calibration.
- The calibration results reported in this certificate are valid at the time of & the tested condition of measurement.
- This certificate shall not be reproduced except in full without written approval of laboratory.
- The Reported uncertainty is at coverage factor k=2 which corresponds to a coverage probability of Approximately 95% for normal distribution.
- All measurements are traceable to National/International Standards.
- Calibration Certificates issued for weight & Measure parameter i.e. Mass,Balance,and Measuring Scale/Tapes etc. are for scientific purpose only and should not be used for trade/ commercial use
- Certificate not given with ULR are not under our NABL Scope.
- This certificate/Document is Electronically Generated And Does Not Require Any Seal/Physical Signature in Original.

#### Calibrated by

Electronically signed by  
Jitesh Kumar Bairwa(3197)  
Designation:Calibration Engineer  
Date:12/02/2022

#### Authorized By

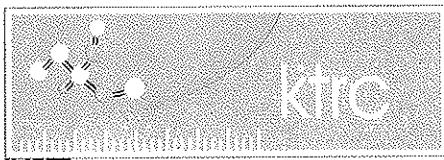
Electronically signed by  
Arjun Kumar(3156)  
Designation:Assistant Manager  
Date:14/02/2022

Plot No. 141 C, Electronic Complex, Pardeshipura, Indore - 452010 (INDIA) Ph. +91-731-4787555 (30 Lines), 4046055, 4048055

Email : contact@kailtech.net, electronics@kailtech.net ♦ Web : www.kailtech.net ♦ CIN - U73100MP2006PTC019006

#### Terms of Service :

1. Sample(s) not drawn by us, unless specified. 2. The results listed in the Test Report are for the submitted samples and tested parameters only. 3. This Report is issued only after customer's acceptance of our terms and conditions. 4. Sample is likely to be consumed and/or destructed during testing. 5. Sample will be disposed after one month from the date of issue of Test Report, unless otherwise specified and accepted by us. 6. This Report cannot be reproduced and/or cannot be used in part or full in any media, unless permitted by us in writing. 7. Liability of our Laboratory is limited to the invoiced amount only. 8. Reports not given with ULR are not under our NABL scope. 9. All disputes subject to jurisdiction of the courts of Indore (India) only.



**CALIBRATION CERTIFICATE**

**KTRC/QF/0708/04**  
Page No 1 of 1

<b>Certificate No</b>	KTRC/2202R000709	<b>Date Of Calibration</b>	12/02/2022
<b>Date Of Receipt</b>	09/02/2022	<b>Suggested Due Date</b>	12/02/2023
<b>ULR No.</b>	CC234822000000473F	<b>Date Of Issue</b>	14/02/2022

Name And Address of Customer	Details Of Unit Under Calibration			
	<b>Name of Equipment</b>	Micro Pipette		
RELIANCE INDUSTRIES LTD. Shahdol, Madhya Pradesh, Shahdol--	<b>Make</b>	LifeX	<b>Range</b>	0 to 1000 µl
	<b>Model</b>	N.A	<b>Least Count</b>	10 µl
	<b>SR. No.</b>	N.A	<b>Condition of UUC</b>	Satisfactory
	<b>Id No.</b>	N.A	<b>Calibration Performed At</b>	Lab

<b>Environmental Condition</b>	<b>Temperature in °C</b>	<b>Humidity in %</b>
	23±1.5	55±20

<b>Calibration Procedure/Standard</b>	KTRC-CAL(BM)-SOP-10/ISO 8655-6
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**DETAIL OF REFERENCE STANDARD USED FOR CALIBRATION**

Reference Standard	Sr.No	I.D No.	Certificate No.	Valid Upto
Analytical Weighing Balance	D450041989	KTRC-CAL-EQ-077	2021/377/00001/31415	13/04/2022

**CALIBRATION RESULT**

Sr. No.	UUC Reading (µl)	Observed Reading On Master (µl)	Deviation (µl)	Expanded Uncertainty in (µl)
1	50	50.36567	-0.36567	0.32
2	500	502.87377	-2.87377	0.60
3	1000	1016.51725	-16.51725	0.60

**REMARKS:-**

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- This certificate shall not be reproduced except in full without written approval of laboratory.
- The Reported uncertainty is at coverage factor k=2 which corresponds to a coverage probability of Approximately 95% for normal distribution.
- All measurements are traceable to National/International Standards.
- Calibration Certificates issued for weight & Measure parameter i.e. Mass,Balance,and Measuring Scale/Tapes etc. are for scientific purpose only and should not be used for trade/ commercial use
- Certificate not given with ULR are not under our NABL Scope.
- This certificate/Document is Electronically Generated And Does Not Require Any Seal/Physical Signature in Original.

**Calibrated by**

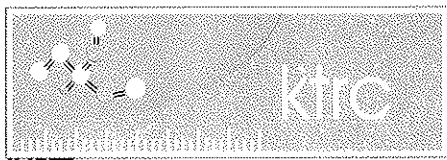
Electronically signed by  
Jitesh Kumar Bairwa(3197)  
Designation:Calibration Engineer  
Date:12/02/2022

**Authorized By**

Electronically signed by  
Arjun Kumar(3156)  
Designation:Assistant Manager  
Date:14/02/2022

**Terms of Service :**

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**CALIBRATION CERTIFICATE**

**KTRC/QF/0708/04**  
Page No 1 of 1

<b>Certificate No</b>	KTRC/2202R000809	<b>Date Of Calibration</b>	12/02/2022
<b>Date Of Receipt</b>	09/02/2022	<b>Suggested Due Date</b>	12/02/2023
<b>ULR No.</b>	CC234822000000474F	<b>Date Of Issue</b>	14/02/2022

Name And Address of Customer		Details Of Unit Under Calibration			
RELIANCE INDUSTRIES LTD. Shahdol, Madhya Pradesh, Shahdol--		<b>Name of Equipment</b>	Micro Pipette		
		<b>Make</b>	LifeX	<b>Range</b>	0 to 100 µl
		<b>Model</b>	N.A	<b>Least Count</b>	1 µl
		<b>SR. No.</b>	N.A	<b>Condition of UUC</b>	Satisfactory
		<b>Id No.</b>	N.A	<b>Calibration Performed At</b>	Lab

<b>Environmental Condition</b>	<b>Temperature in °C</b>	<b>Humidity in %</b>
	23±1.5	55±20

<b>Calibration Procedure/Standard</b>	KTRC-CAL(BM)-SOP-10/ISO 8655-6
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**DETAIL OF REFERENCE STANDARD USED FOR CALIBRATION**

Reference Standard	Sr.No	I.D No.	Certificate No.	Valid Upto
Analytical Weighing Balance	D450041989	KTRC-CAL-EQ-077	2021/377/00001/31415	13/04/2022

**CALIBRATION RESULT**

Sr. No.	UUC Reading (µl)	Observed Reading On Master (µl)	Deviation (µl)	Expanded Uncertainty in (µl)
1	10	9.98582	0.01418	0.32
2	50	48.96564	1.03436	0.32
3	100	97.94132	2.05868	0.32

- REMARKS:-**
1. This Certificate refers only to the item calibrated.
  2. UUC - Unit Under Calibration.
  3. The calibration results reported in this certificate are valid at the time of & the tested condition of measurement.
  4. This certificate shall not be reproduced except in full without written approval of laboratory.
  5. The Reported uncertainty is at standard factor k=2 which corresponds to a coverage probability of Approximately 95% for normal distribution.
  6. All measurements are traceable to National/International Standards.
  7. Calibration Certificates issued for weight & Measure parameter i.e. Mass,Balance,and Measuring Scale/Tapes etc. are for scientific purpose only and should not be used for trade/ commercial use
  8. Certificate not given with ULR are not under our NABL Scope.
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**Calibrated by**

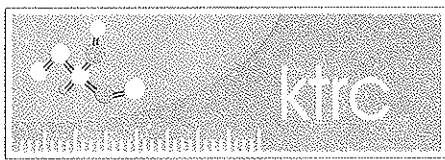
Electronically signed by  
Jitesh Kumar Bairwa(3197)  
Designation:Calibration Engineer  
Date:12/02/2022

**Authorized By**

Electronically signed by  
Arjun Kumar(3156)  
Designation:Assistant Manager  
Date:14/02/2022

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**CALIBRATION CERTIFICATE**

**KTRC/QF/0708/04**  
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<b>Certificate No.</b>	KTRC/2202R000909	<b>Date Of Calibration</b>	12/02/2022
<b>Date Of Receipt</b>	09/02/2022	<b>Suggested Due Date</b>	12/02/2023
<b>ULR No.</b>	CC234822000000475F	<b>Date Of Issue</b>	14/02/2022

Name And Address of Customer	Details Of Unit Under Calibration			
RELIANCE INDUSTRIES LTD. Shahdol, Madhya Pradesh, Shahdol--	<b>Name of Equipment</b>	Micro Pipette		
	<b>Make</b>	LifeX	<b>Range</b>	0 to 1000 µl
	<b>Model</b>	N.A	<b>Least Count</b>	10 µl
	<b>SR. No.</b>	N.A	<b>Condition of UUC</b>	Satisfactory
	<b>Id No.</b>	N.A	<b>Calibration Performed At</b>	Lab

<b>Environmental Condition</b>	<b>Temperature in °C</b>	<b>Humidity in %</b>
	23±1.5	55±20

<b>Calibration Procedure/Standard</b>	KTRC-CAL(BM)-SOP-10/ISO 8655-6
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**DETAIL OF REFERENCE STANDARD USED FOR CALIBRATION**

Reference Standard	Sr.No	I.D No.	Certificate No.	Valid Upto
Analytical Weighing Balance	D450041989	KTRC-CAL-EQ-077	2021/377/00001/31415	13/04/2022

**CALIBRATION RESULT**

Sr. No.	UUC Reading (µl)	Observed Reading On Master (µl)	Deviation (µl)	Expanded Uncertainty in (µl)
1	50	48.33819	1.66181	0.32
2	500	504.02803	-4.02803	0.60
3	1000	1018.82576	-18.82576	0.60

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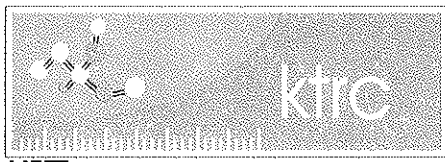
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Jitesh Kumar Bairwa(3197)  
Designation:Calibration Engineer  
Date:12/02/2022

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Electronically signed by  
Arjun Kumar(3156)  
Designation:Assistant Manager  
Date:14/02/2022

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Quality first & forever



CC-2348

# KAILTECH

Test & Research Centre Pvt. Ltd.

## CALIBRATION CERTIFICATE

KTRC/QF/0708/04

Page No 1 of 1

<b>Certificate No.</b>	KTRC/2202R001009	<b>Date Of Calibration</b>	12/02/2022
<b>Date Of Receipt</b>	09/02/2022	<b>Suggested Due Date</b>	12/02/2023
<b>ULR No.</b>	CC234822000000476F	<b>Date Of Issue</b>	14/02/2022

<b>Name And Address of Customer</b> RELIANCE INDUSTRIES LTD. Shahdol, Madhya Pradesh, Shahdol--	<b>Details Of Unit Under Calibration</b>			
	<b>Name of Equipment</b>	Micro Pipette		
	<b>Make</b>	N.A	<b>Range</b>	10 to 100 µl
	<b>Model</b>	N.A	<b>Least Count</b>	1 µl
	<b>SR. No.</b>	N.A	<b>Condition of UUC</b>	Satisfactory
	<b>Id No.</b>	N.A	<b>Calibration Performed At</b>	Lab

<b>Environmental Condition</b>	<b>Temperature in °C</b>	<b>Humidity in %</b>
	23±1.5	55±20
<b>Calibration Procedure/Standard</b>	KTRC-CAL(BM)-SOP-10/ISO 8655-6	

### DETAIL OF REFERENCE STANDARD USED FOR CALIBRATION

Reference Standard	Sr.No	I.D No.	Certificate No.	Valid Upto
Analytical Weighing Balance	D450041989	KTRC-CAL-EQ-077	2021/377/00001/31415	13/04/2022

### CALIBRATION RESULT

Sr. No.	UUC Reading (µl)	Observed Reading On Master (µl)	Deviation (µl)	Expanded Uncertainty in (µl)
1	10	10.54889	-0.54889	0.32
2	50	50.60655	-0.60655	0.32
3	100	100.83170	-0.83170	0.32

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#### Calibrated by

Electronically signed by  
Jitesh Kumar Bairwa(3197)  
Designation:Calibration Engineer  
Date:12/02/2022

#### Authorized By

Electronically signed by  
Arjun Kumar(3156)  
Designation:Assistant Manager  
Date:14/02/2022

Plot No. 141 C, Electronic Complex, Pardeshipura, Indore - 452010 (INDIA) Ph. +91-731-4787555 (30 Lines), 4046055, 4048055

Email : contact@kailtech.net, electronics@kailtech.net ♦ Web : www.kailtech.net ♦ CIN - U73100MP2006PTC019006

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