



Perfect Calibration Centre Pvt. Ltd.
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CC - 2207

NABL LAB FOR : MECHANICAL • THERMAL • ET • AIR / FLUID FLOW • FORCE • MASS • OPTICAL

UIN: CC220722000029617F
 ISSUE DATE: 28/06/2022

CERTIFICATE NO. : PC - 06 - 22 / ATL / 2686-01

CUSTOMER : M/s. GREEN LABS & DIAGNOSTICS
 ADDRESS : No. 3/199, 1st MAIN ROAD, PERUMBAKKAM,
 CHENNAI-600100.

CAL DATE: 27/06/2022
 DUE DATE: 26/06/2023

CUST REF : SRF NO.: 2686, DATED: 27/06/2022.

PAGE NO.: 1/1
 DISCIPLINE: MECHANICAL

DEPT : AT LAB

MICRO PIPETTE
 DATE OF RECEIPT : 27/06/2022
 PHYSICAL CONDITION : SATISFACTORY

TEMPERATURE: 20.8 °C
 HUMIDITY: 56% RH
 ATMOSPHERIC PRESSURE: 1002.2 mbar
 Z FACTOR: 1.0029 µl/mg

PIPETTE DETAILS:

MAKE : TRUYTRON
 TYPE : VARIABLE
 SL. NO. : 386022

RANGE : 5 to 50 µl
 L.C. : 0.5 µl

STANDARD USED	SL.NO/ID.NO	CERT. NO.	VALIDITY
ELECTRONIC BALANCE	37014 / PCCPL/EB - 01	PC-09-21 / ATL / 3518 - 01	12/09/2022
ELECTRONIC BALANCE	1125510540 / PCCPL/EB - 02	PC-09-21 / ATL / 3518 - 02	12/09/2022

CALIBRATION PROCEDURE : WI-M-MP-44(I) REFERENCE STANDARD : ISO 8655-6 & ISO / TR 20461

CALIBRATION RESULTS

1. LOWER VOLUME	10 µl	NO. OF MEASUREMENT: 10	9.96	9.96
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MEAN VOLUME:	9.95278	ERROR LIMIT	NO. OF MEASUREMENT: 10	24.96	24.88
SYSTEMATIC ERROR (e _s) µl :	0.01404	(± 0.8µl)	RANDOM ERROR (S _p) µl :	0.035442	(± 0.3µl)
SYSTEMATIC ERROR (e _s) in % :	0.047220	(± 8%)	RANDOM ERROR (C _v) % :	0.35610	(± 0.3%)

2. MIDDLE VOLUME	25 µl	NO. OF MEASUREMENT: 10	24.96	24.88
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MEAN VOLUME:	24.88395	ERROR LIMIT	NO. OF MEASUREMENT: 10	49.75	49.77
SYSTEMATIC ERROR (e _s) µl :	0.11605	(± 4.0µl)	RANDOM ERROR (S _p) µl :	0.05709	(± 1.5µl)
SYSTEMATIC ERROR (e _s) in % :	0.464181	(± 0.8%)	RANDOM ERROR (C _v) % :	0.22941	(± 0.3%)

3. UPPER VOLUME	50 µl	NO. OF MEASUREMENT: 10	49.75	49.77
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MEAN VOLUME:	49.81605	ERROR LIMIT	NO. OF MEASUREMENT: 10	49.75	49.77
SYSTEMATIC ERROR (e _s) µl :	0.18395	(± 0.8µl)	RANDOM ERROR (S _p) µl :	0.05407	(± 0.3µl)
SYSTEMATIC ERROR (e _s) in % :	0.367902	(± 0.8%)	RANDOM ERROR (C _v) % :	0.108539	(± 0.3%)

UNCERTAINTY OF MEASUREMENTS = ± 0.11 µl
 THE REPORTED EXPANDED MEASUREMENT UNCERTAINTY IS STATED AS THE COMBINED STANDARD MEASUREMENT UNCERTAINTY MULTIPLIED BY THE COVERAGE FACTOR K=2 SUCH THAT THE COVERAGE PROBABILITY CORRESPONDS TO APPROXIMATELY 95%.
 NOTE : THIS CALIBRATION CERTIFICATE IS VALID FOR SCIENTIFIC & INDUSTRIAL PURPOSE ONLY AND NOT APPLICABLE FOR COMMERCIAL PURPOSE.

*** END OF CERTIFICATE ***

Calibrated / Checked by
 SARAVANAN R
 ENGINEER



PREPARED BY
 VINODHAC



Authorised Signatory
 F L RAMESH
 QUALITY MANAGER

2022/8/9 21:15