Trescal
| CALIBRATION SOLUTIONS TO IMPROVE YOUR PERFORMANCE |

ilac-MRA STANDARDS MALAYSIA ACCREDITED
SAMM 011

Certificate of Calibration

Cert. No. PSYP- 24043762

Reference No	R124135826
Date of Issue	12 Jun 2024
Customer	PRO LAB ENGINEERING SERVICES SDN BHD No.21-G Jalan Bidara 8 Saujana Utama 3 47000 Sungai Buloh Selangor
ID: 039228	
Instrument	Top Pan Balance
Model	NL 7017 X / 001A
Serial No	0722040136
Control No	CA4624J
Equipment ID	N/A
Capacity/Range	620 g
Date of Receipt	10 Jun 2024
Date of Calibration	11 Jun 2024
Recalibration Date (Specified by Customer)	11 Jun 2025 The User should be aware there are many factors may cause this instrument to drift out of calibration limits prior to the stated recalibration date.
Condition of Instrument	
Before Calibration	Good Physical Condition
After Calibration	Calibrated and Serviceable
Location of Calibration	In-situ
Calibration Environment	(29.4 ± 0.6) °C, (42 ± 4) %rh
Calibration Method	LCP 01301

Reference Standard Used

Reference Instrument	Equipment ID	Control No	Certificate No	Traceable to	Due Date
Standard Weight	PH-SM-SW15	C2170G	PSYP-24018570	NMIM	11 Mar 2025

Calibrated By

Muhammad Iqbal Bin Mohammad Fuad

Approved Signatory

Tamilselvam A/L Chinayah

The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%

Trescal
| CALIBRATION SOLUTIONS TO IMPROVE YOUR PERFORMANCE |

ilac-MRA STANDARDS MALAYSIA ACCREDITED
SAMM 011

Certificate of Calibration

Control No. CA4624J

Cert. No. PSYP-24043762

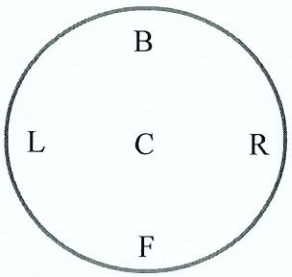
Instrument Calibrated

Resolution	0.01	g
Readability	0.01	

Specification		
Linearity	±	N/A

ACCURACY TEST	LINEARITY TEST		
REFERENCE WEIGHT	UUT READ	CORRECTION BEFORE ADJUST	CORRECTION AFTER ADJUST
0.00	0.00	0.00	-
1.00	1.00	0.00	-
10.00	10.00	0.00	-
50.00	50.00	0.00	-
100.00	100.00	0.00	-
200.00	200.00	0.00	-
300.00	300.00	0.00	-
400.00	400.00	0.00	-
500.00	500.00	0.00	-
600.00	600.00	0.00	-
Measurement Uncertainty ±	**0.01**	**g**	**k = 2**

OFF CENTER TEST		REPEATABILITY TEST
POSITION	g	
CENTER -C	200.00	1 standard Deviation
FRONT -F	200.00	0.00
BACK -B	200.00	
RIGHT -R	200.00	3 standard Deviation
LEFT-L	200.00	0.00
OFF CENTER ERROR	0.00	



Off center test position

Info 1 : True Reading = UUT Reading + Correction

Info 2 : UUT - Unit Under Test

Info 3 : Refer to 'Correction After Adjust' if adjusted. Otherwise refer 'Correction Before Adjust' if not adjusted. '-' mean not adjust.

Info 4 : If the correction is out of user specification, in order to meet the specification the user shall apply correction to derive true value

Info 5 : Calibration Curve can be derive by interpolation the calibration point, the interpolation point is valid through the linearity of curve

Info 6 : Uncertainty - Parameter, associated with the result of measurement, that characterises the dispersion of the value that reasonably be attributed to the measurand.

ACCEPTABLE TO USE

Izatul Azira
Lab Manager/Approved Signatory
PRO LAB ENGINEERING SERVICES SDN BHD

The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95%