



# MEASURE TECHNO LAB

2, B.T. ROAD (JAYANTI CINEMA COMPLEX), BARRACKPORE,  
KOLKATA - 700120, W.B.



CC - 2545

Phone : 033 - 2215 - 0032, 2215 - 9687, 8100875519, Mobile: 9831190974,  
LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in

## CALIBRATION CERTIFICATE OF CENTRIFUGE

LIBRATION CERTIFICATE NO.: MTL / D / R01 / 06 - 23

ULR - CC254523000016731F

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1.0 Service Request No.: MTL / 14F / 06 / 22 - 23

1.1 Issued to: M/s. Diagnostics,  
190B, Rashbehari Avenue,  
Kolkata - 700029.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Centrifuge	b) Code No.:	DIA / BIO / 08
	c) Sl. No.:	ICLC - 5060	d) Make:	Remi
	e) Model / Type:	R - 8C	f) Range:	5250 rpm
	g) Sensor:	N.A.	h) Resolution:	10 rpm
	i) End User:	Biochemistry	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 14-06-23 1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 14-06-23 1.6 Recommended date of next calibration : 14-06-24

1.7 Date of Issue : 16-06-23

1.8 Environmental Conditions During Calibration: Temperature: 35 °C ± 10 °C  
Humidity: 60 % RH ± 20 % RH

1.9 Method of Calibration: SOP / RPM / CF / 01

### 2.0 Traceability :

a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

i) Digital Tachometer Cal. Certificate No. JRPM - CCTR - A&S - 2022 - 0025 (JRPM, Chennai) (Cal. Date: 09/07/22, Due Date: 08/07/23)

### 2.1 Result :

#### Mechanical Calibration

Sl. No.	Parameter/ Range	Nominal Value on DUC rpm	Std. Value Average of Five Readings rpm	Error rpm	Measurement Expanded Uncertainty ± rpm
1.	Rotation 5250 rpm	1280	1281.2	-1.2	5.99
2.		2110	2113.5	-3.5	
3.		2930	2935.4	-5.4	
4.		3620	3627.8	-7.8	
5.		4580	4589.1	-9.1	

Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.

ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.

iii) Error = DUC Reading - Standard Reading.

DUC - Device Under Calibration

N.S. - Not Specified

N.A. - Not Applicable

Std. - Standard

rpm - Rotation Per Minute

### Opinions and Interpretations

Calibrated	√	Accepted / Valid for use
Limited Use		Rejected / Out of use

Calibrated by  
Calibration Engineer  
Measure Techno Lab  
Kolkata  
Calibration Engineer

Checked by  
APPROVED by  
Quality & Technical Manager  
S. Pandey



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LAB:- 8100143376, E-mail: measuretechno@yahoo.co.in

## CALIBRATION CERTIFICATE OF TIMER OF CENTRIFUGE

Page: 1 of 1

CALIBRATION CERTIFICATE NO.: MTL / D / R01A / 06 - 23

ULR - CC254523000016732F

1.0 Service Request No.: MTL / 14F / 06 / 22 - 23

1.1 Issued to: M/s. Diagnostics,  
190B, Rashbehari Avenue,  
Kolkata - 700029.

1.2 Description & Identification of item to be Calibrated:	a) Name:	Timer of Centrifuge	b) Code No.:	DIA / BIO / 08
	c) Sl. No.:	ICLC - 5060	d) Make:	Remi
	e) Model / Type:	R - BC	f) Range:	99 min.
	g) Sensor:	N.A.	h) Resolution:	1 min.
	i) End User:	Biochemistry	j) Accuracy:	N.S.
	k) Calibration done at:	√ On Site / In House		

1.3 Date of receipt of item : 14-06-23

1.4 Physical Condition of DUC : OK

1.5 Date of calibration : 14-06-23

1.6 Recommended date of next calibration: 14-06-24

1.7 Date of Issue : 16-06-23

1.8 Environmental Conditions During Calibration: Temperature: 30 °C ± 10 °C  
Humidity: < 80 % RH

1.9 Method of Calibration: MTL / ET / 44 & MTL / ET / CAL / 01

2.0 Traceability: a) Standards used for calibration are traceable to National standards through NABL Accredited Laboratory.

b) The following standards / Equipment have been used.

(NIPL, Thiruvallur)

(Cal. Date: 22/07/22, Due Date: 21/07/23)

i) Digital Time Calibrator Cal. Certificate No. 2240722 - E01

2.1 Result :  
Electrotechnical Calibration

Sl. No.	Parameter/ Range	Nominal Value on DUC min.	Std. Value sec.	Error sec.	Measurement Expanded Uncertainty ± min.
1.	Time 99 min.	1	60.216	-0.216	0.5776
2.		5	300.274	-0.274	0.5776
3.		10	600.365	-0.365	0.5776
4.		20	1200.481	-0.481	0.5776

Remarks: i) This result has an expanded uncertainty with a coverage factor k=2 at approximately 95% confidence level.  
ii) The calibration certificate issued for this instrument is to be used for scientific or industrial purposes only.  
iii) Error = DUC Reading - Standard Reading.

DUC - Device Under Calibration    N.S. - Not Specified    N.A. - Not Applicable    Std. - Standard    sec. - Second  
min. - Minute

Opinions and Interpretations	✓	Accepted / Valid for use	
Calibrated		Rejected / Out of use	
Limited Use			

Calibrated by:  
S. Saha  
Calibration Engineer  
Measure Techno Lab  
Kolkata

Checked & Approved By:  
ROCHITA  
Quality & Technical Manager  
S. Pandey