

ULR - CC28812300009260F

Calibration Certificate

CC - 2881

Date of Calibration	Recommended Date for Next Calibration	Issue Date	Certificate No.
31.07.2023	30.07.2024 (Recommended BY Customer)	03.08.2023	QATM - 22100999

Customer Name and Address		M/s Lupin Dignostics, Lupin Dignostics Ltd. HLM Shobha, 128 Shobha Nursing Home, Opp. Seva Sadan School, Murarji Peth, Saraswati Chowk, Solapur-413001	
Calibration Request Reference	Verbal Request	SRF No.: SRF - 22100075	
Test Equipment Specifications			
Location	HLM Shobha Lab	Department	Lab
Equipment Name	Centrifuge	Range	0 to 5250 rpm, 1 to 99 min
Make	Remi	Operating Range	--
Model	R-8C	Resolution	10 rpm
Serial No.	ZHJN-38261	Accuracy	± 2 % F.S.
ID No.	LDL/HLM/LAB/CEN/1	Calibration Procedure No.	QATM-WI-ET- 09S,10S
Date of Equipment Receipt	31.07.2023	Condition on receipt	Good
Environmental Conditions:	Temperature: 25 ± 4 °C	Relative Humidity: 30 to 70 % RH	Atmospheric Pressure: NA

REFERENCE STANDARD USED FOR CALIBRATION (TRACEABLE TO NATIONAL / INTERNATIONAL STANDARDS)

Name of Equipment	Make	Model	ID No.	Due Date	Certificate No.
Digital Tachometer	Monarch	PLT 200	QA/MUM/CAL/PLT-28	17.01.2024	QATM - 23010521
Digital Stopwatch	Casio	HS-80TW-1DF	QA/MUM/CAL/DSW-22	29.06.2024	QATM - 23061376

Mechanical Calibration

OBSERVATION

PARAMETER : Speed

Range	Reading on UUC	Reading On Standard	Deviation	Expanded Uncertainty (±)
rpm	rpm	rpm	rpm	rpm
0 to 5250	500	500.65	-0.65	2.5
	1000	1001.3	-1.3	2.5
	2000	2001.8	-1.8	2.5
	3000	3003.4	-3.4	2.5
	4000	4004.8	-4.8	2.5

Electrotechnical Calibration

PARAMETER : Period

Calibration Point	UUC Reading	Standard Reading	Deviation	Expanded Uncertainty
	min	Hrs:min:sec:1/1000	Hrs:min:sec:1/1000	± sec
05 min	05	0:05:00:137	-00:00:00:137	0.7
15 min	15	0:15:00:205	-00:00:00:205	
30 min	30	0:30:00:246	-00:00:00:246	

- UUC : Unit Under Calibration.
- The Above UUC was calibrated at site.
- For Speed, Standard reading is average of five readings.
- For period UUC & standard reading is average of three readings.
- This Calibration certificate refers only to the particular item submitted for calibration.
- This certificate shall not be produced, except in full without the prior permission from the QA TECH Head.
- The calibration results reported in this certificate are valid at the time of and under the stated conditions of measurement.
- The reported measurement uncertainty is estimated at a level of confidence of approximately 95 % with a coverage factor k = 2.

Calibrated by  Calibration Engineer (Tejas Pedamkar)		Authorised Signatory  Technical Manager (Rakesh Bhalerao)	
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**** End of Calibration Certificate ****

GMP Technical Solutions Private Limited

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