Sartorius Singapore Pte Ltd 30 Pasir Panjang Road, #06-31A/32 Mapletree Business City Singapore 117440



CERTIFICATE OF CALIBRATION

DATE OF ISSUE 12 June 2023 CERTIFICATE NUMBER:



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Date of Calibration: 12 June 2023 Calibration Technician: Peh Shi Min

HOYA MEDICAL SINGAPORE PTE LTD Customer: Weight Unit used: 455A JALAN AHMAD IBRAHIM,

SINGAPORE 639939 Job Number: 212235

> Calibration Type: As-Found

g

Contact Person: 0 0 Contact Number:

The calibration was carried out in accordance with procedure QP-QMS-21 Rev. 14, by placing weights on the load receptor as listed below:

Serial Number (s)	Certificate Number	Date of Calibration	Weight Class	Packaging	Issued by
38529083	M2304031S	6 April 2023	E2	Box weight	TCS

Weighing Instrument & Environment

Manufacturer:	Sartorius				Capacity:		6200 g	
Model / Type:	ED6202S				Range Tested	l:	6000 g	
Serial No.:	19011817				Readability:		0.01 g	
Tag / Inventory No:	05-800065-06	5						
On-Site Location:	Prodcution							
Reason for Calibrati	ion: New	Installation	Re-calibration	/ Annual calibration	Serv	ice / Repair		
Temperature (°C) be	efore tests:	24.0 °C			After Tests:	24.0 °C		
Humidity (% RH) be	fore tests:	48.5 % RH			After Tests:	48.0 % RH		
Ambient Condition:	Very stable	✓ Stable	Unstable	Very unstable				
Mass values are reporte temperature of 20 degree		ir basis where the	mass is that of a h	ypothetical weight of c	lensity 8 000 kg m	n ⁻³ , which it balances	in air density 1.2 kg m ⁻³	at a
The results reported berein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council								

Method of calibration carried out is in accordance with QP-QMS-21 Rev.14 and with reference to UKAS Lab 14 Edition 6 (2019).

This certificate provides traceability to recognised national standards which realize the units of measurement according to the International System of Units (SI)

Values stated apply to the condition of the equipment at time of calibration. Calibration interval of this equipment should be determined by the user.

This certificate may not be reproduced other than in full, except with the written approval of the issuing laboratory. Calibration certificates without signatures are not valid.

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Weight Unit used: g

Repeatability Test			
At Low Load: Standard deviation:	0.003	600 g	
Range:	0.01	g	
At Half Load: Standard deviation:	0.004	3000 g	
Range:	0.01	g	
At High Load: Standard deviation:	0.004 0.01	6000 g	
Range:		g	
Maximum Standard deviation:	0.00	04	

Hysteresis Test				
Hysteresis is less than	<	1.0000		

Operating Range Based On

USP Chapter 41: 8.20 g to 6200 g

Linearity Test			
Applied Load (g)	Result (g)	Deviation (g)	
600.00	600.00	0.00	
1,200.00	1,200.00	0.00	
1,800.00	1,800.00	0.00	
2,400.00	2,400.00	0.00	
3,000.00	3,000.00	0.00	
3,600.00	3,600.00	0.00	
4,200.00	4,200.00	0.00	
4,800.00	4,800.00	0.00	
5,400.00	5,400.00	0.00	
6,000.00	6,000.00	0.00	
:	:	-	
:		-	
:		-	
	•		
Maximum Deviation:		0.00	

Maximum Deviation: 0.00
Maximum % deviation: 0.000%

Eccentricity Test			
Nominal Weight	used:	5000 g	
Centre	(1):	5,000.00	
Front Left	(2):	4,999.99	
Rear Left	(3):	5,000.00	
Rear Right	(4):	5,000.00	
Front Right	(5):	5,000.00	
Centre	(6):	5,000.00	
Maximum Error	+/-:	0.01	

Remarks:

NIL

Expanded Uncertainty of Measurement: 0.03

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out with reference to UKAS M3003 4th Edition.

The results of this calibration is applicable only to the item bearing the serial number stated within this certificate

Revision 14, dated 01 Nov 2022

Peh Shi Min Calibration Technician

Cliff Chia Technical Manager

^{*} Operating range is with reference to the guildline stated in USP Chapter 41