

Input data



Instrument Name	Automated 3 Part Cell Counter
Make	Nihon Kohden
Model	MEK-6510K
Serial no	6496
Calibration date	26th Sep 2022
Installation place	Medline Diagnostics Private Limited - Trichy - 620017



Name : R.SHANMUGAPRABU
Designation : CS - ENGINEER


Calibration Data

Instrument Name : Automated 3 Part Cell Counter
 Make : Nihon Kohden
 Model : MEK-6510K
 Serial no : 6496
 Calibration date : 26th Sep 2022
 Installation place : Medline Diagnostics Private Limited - Trichy - 620017

CALIBRATION RUN DATA					
Sample No.	WBC	RBC	HGB	HCT	PLT
1	9.00	4.62	13.80	40.1	245
2	9.00	4.68	14.00	40.6	256
3	9.10	4.72	13.90	40.7	259
4	9.30	4.69	14.00	40.9	259
5	9.30	4.70	14.00	40.8	245
6	9.20	4.68	13.90	40.6	243
7	9.30	4.72	14.00	40.8	268
8	9.30	4.60	13.90	39.8	252
9	8.90	4.65	13.90	40.4	246
10	9.20	4.67	13.90	40.4	263
Mean	9.16	4.41	13.93	40.51	253.60
SD	0.15	0.04	0.07	0.34	9
CV%	1.64	0.9	0.48	0.9	3.4

Acceptable CV%	Within 2.0%	Within 1.5%	Within 1.5%	Within 1.5%	Within 4%
Result status	PASS	PASS	PASS	PASS	PASS

**Precision study performed on the analyzer using a blood samples.*

For Nihon Kohden India Pvt. Ltd.

Name : R.SHANMUGAPRABU

Designation : CS - ENGINEER

Precision Check Data

Instrument Name : Automated 3 Part Cell Counter
 Make : Nihon Kohden
 Model : MEK-6510K
 Serial no : 6496
 Calibration date : 26th Sep 2022
 Installation place : Medline Diagnostics Private Limited - Trichy - 620017

PRECISION RUN DATA					
Sample No.	WBC	RBC	HGB	HCT	PLT
1	6.80	5.47	16.10	48.3	217
2	7.10	5.43	16.00	48.0	237
3	7.10	5.49	16.20	48.6	216
4	6.90	5.45	16.10	48.2	232
5	7.10	5.39	16.00	47.6	233
6	7.00	5.44	16.10	48.0	236
7	6.90	5.40	16.10	47.7	237
8	7.20	5.39	16.10	47.5	222
9	7.00	5.41	16.10	47.8	231
10	7.00	5.41	16.00	47.7	223
Mean	7.01	4.73	16.08	47.9	228
SD	0.12	0.0	0.06	0.3	8
CV%	1.71	0.7	0.39	0.7	4

Acceptable CV%	Within 2.0%	Within 1.5%	Within 1.5%	Within 1%	Within 4%
Result status	PASS	PASS	PASS	PASS	PASS

*Precision study performed on the analyzer using a blood samples.




For Nihon Kohden India Pvt. Ltd.

Name : R.SHANMUGAPRABU

Designation : CS - ENGINEER

Certification of Calibration

Instrument Name	: Automated 3 Part Cell Counter
Make	: Nihon Kohden
Model	: MEK-6510K
Serial no	: 6496
Calibration date	: 26th Sep 2022
Installation place	: Medline Diagnostics Private Limited - Trichy - 620017

This is to certify that the above mentioned instrument has been successfully calibrated on **26th Sep 2022** with MEK-CAL lot no-**PLUS 229** bearing expiry till **5th Oct , 2022**. During the calibration of the analyser, all CBC parameters were calibrated.

Ran Quality Controls **MEK-3D (Low, Normal, and High) Lot no-B228** bearing expiry of **5th Nov 2022**, Result found within specified range.

Based on the manufacture recommended calibration interval the next due date of calibration is on **25th Sep 2023**. Validity \pm 30days. Or depends on QC performance/subject to replacement or change in hardware.



For Nihon Kohden India Pvt. Ltd.

Name : R.SHANMUGAPRABU

Designation : CS - ENGINEER



CC-2725

**CERTIFICATE OF CALIBRATION**

Certificate No: CC-22-23-L-499/04

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Customer Name & Address M/s. MEDLINE DIAGNOSTICS (PVT) LTD. No. 23-A, Thennur High Road, Tiruchirappalli, Tamil Nadu - 620 017.	ULR No.	CC272522000008206F
	SRF No.	VCI-22-23-L-499
	Date of Receipt	06.12.2022
	Date of Calibration	06.12.2022
	Due Date for Calibration	05.12.2023
	Date of Issue	07.12.2022

Details of Unit Under Calibration

Description	Micro Pipette	Make	ThermoScientific
Range	20 - 200 µl	Model	Finnpipette F3
Resolution	0.2 µl	Material	pvc
Serial Number	RW15747	Operating Range	20 - 200 µl
ID Number	--	Condition of UUC	Good
Cal. At	Mechanical Lab	Instrument Location	--

Environmental Condition				Calibration Method Used	
Temperature (°C)	23±2	Humidity (%RH)	55±15	National / International Standard	ISO 8655-6:2002, ISO 8655-2:2002
Atmospheric Pressure (mbar)	1006	Water Temperature (°C)	21.6	Cal Procedure No	VCI-L03-WI-MASS-003

Standard Used

Sl. No.	Description	ID.No. / Sl. No.	Certificate No.	Make/Model	Traceability	Valid till
1	Electronic Semi Micro Balance	VCI-M-WB-017 / 55492	CC-22-23-S-852/01	Wensar / MAB 250	National Standards	12.10.2023

Z Factor: 1.00319

Result of Calibration in µl											
Sl. No.	Nominal Value	Observed Readings					Mean Value	Systematic Error	Random Error	Measurement Uncertainty (±)	
1	20	20.05	20.08	20.10	20.12	20.18	20.11	0.11	0.05	0.20	
		20.02	20.06	20.16	20.14	20.16					
2	100	100.18	100.36	100.22	100.29	100.33	100.28	0.28	0.05	0.20	
		100.27	100.25	100.24	100.29	100.32					
3	200	200.43	200.32	200.37	200.54	200.46	200.43	0.43	0.08	0.88	
		200.35	200.39	200.55	200.42	200.48					

Note: Conformity Statement

Pass: Fail:

Remarks

- UUC is Defined as the Unit Under Calibration.
- The Measurement uncertainty is expressed at 95.45% confidence level with coverage factor $k=2$.
- This Calibration Certificate relates only to the above UUC & Reported results are valid at the time of and under the stated conditions of measurements.
- Calibration of the UUC are traceable to National / International Standards.
- This report shall not be reproduced in full/ part without prior permission of Venus Calibration and Instruments.
- The recalibration interval shall be determined on the user requirements.
- Nabl-133 guidelines are adopted for use of NABL symbol.
- Calibration Liquid Used: Distilled or Deionized water conforming Grade3 as specified in ISO 3696.
- Our Nabl Scope is Upto 10µl to 10ml.
- The Deviation is within MPE, So after calibration is not required.

Checked & Issued by:

R. Bhuvaneshwari

(Engineer - Calibration)



Authorised by:

C. Dhinakaran

(Technical/Quality Manager)

No.16, 6th Street, Annai Sathya Nagar, Poothapedu Ramapuram, Chennai - 89.

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