

Certification of Calibration

Instrument Name	: Automated 3 part cell counter
Make	: Nihon Kohden
Model	: MEK-6420P
Serial no	: 4489
Calibration date	: 18th Feb 2023
Installation place	: Health Horizon Diagnostics - Pune

This is to certified that the above-mentioned instrument has been successfully calibrate on 18th Feb 2023 with MEK-CAL lot no-Plus232 bearing expiry till 5th March 2023. During the calibration of the analyzer, all CBC parameter were calibrated.

Ran Control LOT no- BO223 bearing expiry of 5th May 2023, Result found within specified range.

Based on the manufacturing recommended calibrators interval the next due date of calibration is on 18th Feb 2024. Validity +or – 30 days. Or depends on calibrator performance/ subject to replacement or change in hardware.



For Nihon Kohden India Pvt. Ltd.

Name: Rajesh Kasar

Designation: Sr: Engineer

Calibration Data

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CALIBRATION RUN DATA					
Sample No.	WBC	RBC	HGB	HCT	PLT
1	9.0	4.60	13.6	40.8	260
2	8.9	4.59	13.5	39.5	255
3	9.2	4.62	13.7	39.8	258
4	9.1	4.60	13.6	40.6	250
5	8.9	4.63	13.6	39.6	262
6	8.9	4.57	13.7	40.7	267
7	9.0	4.56	13.5	40.2	275
8	9.1	4.62	13.7	40.5	280
9	8.9	4.64	13.6	40.2	245
10	9.0	4.56	13.7	39.6	252
Mean	9.0	4.60	13.6	40.2	260
SD	0.1	0.01	0.1	0.6	2
CV%	1.4	0.27	0.60	1.38	0.79

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

Rajesh



For Nihon Kohden India Pvt. Ltd.

Name: Rajesh Kasar

Designation: Sr: Engineer

Precision Check Data

Instrument Name : Automated 3 part cell counter
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 Model : MEK-6420P
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PRECISION RUN DATA					
Sample No.	WBC	RBC	HGB	HCT	PLT
1	4.8	4.77	12.7	38.5	302
2	4.8	4.81	12.7	38.4	289
3	4.8	4.81	12.7	38.7	310
4	4.7	4.80	12.7	38.2	313
5	4.9	4.79	12.7	38.3	312
Mean	4.8	4.8	12.7	38.4	305.2
SD	0.1	0.0	0.0	0.2	10.0
CV%	1.47	0.35	0.00	0.5	3.29

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.

Rajesh



For Nihon Kohden India Pvt. Ltd.

Name: Rajesh Kasar

Designation: Sr: Engineer

Control Data

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Control Data Run On MEK 6510K Machine

Normal Control B0223N

Sr. No.	Parameters	Acceptable Range	Target Valve	Reading On MEK 6510K
1	WBC	+/- 0.8	7.9	7.9
2	RBC	+/- 0.20	4.55	4.47
3	HGB	+/- 0.5	13.7	13.7
4	HCT	+/- 3.0	40.1	40.5
5	MCV	+/- 7.0	88.1	90.6
6	MCH	+/- 2.4	30.1	30.6
7	MCHC	+/- 3.0	34.2	33.8
8	PLT	+/- 50	250	247
9	MPV	+/- 2.0	8.3	8.3
10	RDW	+/- 3.0	15.5	15.8
11	LY%	+/- 10.0	37.0	39.6
12	MO%	+/- 5.0	4.0	3.7
13	GR%	+/- 10.0	59.0	56.7
14	LY	+/- 1.0	2.9	3.1
15	MO	+/- 0.4	0.3	0.3
16	GR	+/- 1.0	4.7	56.7



High Control BO223H

Sr. No.	Parameters	Acceptable Range	Target Valve	Reading On MEK 6510K
1	WBC	+/- 0.8	21.1	21.0
2	RBC	+/- 0.20	5.70	5.71
3	HGB	+/- 0.5	18.6	18.8
4	HCT	+/- 3.0	54.1	55.4
5	MCV	+/- 7.0	94.9	97.0
6	MCH	+/- 2.4	32.6	31.9
7	MCHC	+/- 3.0	34.3	33.9
8	PLT	+/- 50	520	543
9	MPV	+/- 2.0	8.7	8.3
10	RDW	+/- 3.0	15.5	15.2
11	LY%	+/- 10.0	18	19.1
12	MO%	+/- 5.0	2.5	2.0
13	GR%	+/- 10.0	79.5	78.9
14	LY	+/- 1.0	3.8	4.0
15	MO	+/- 0.4	0.5	0.4
16	GR	+/- 1.0	16.8	16.6

Low Control BO223L

Sr. No.	Parameters	Acceptable Range	Target Valve	Reading On MEK 6510K
1	WBC	+/- 0.8	2.1	2.0
2	RBC	+/- 0.20	2.30	2.30
3	HGB	+/- 0.5	5.9	5.8
4	HCT	+/- 3.0	17.8	17.3
5	MCV	+/- 7.0	77.4	75.2
6	MCH	+/- 2.4	25.7	25.2
7	MCHC	+/- 3.0	33.1	33.5
8	PLT	+/- 50	70	70
9	MPV	+/- 2.0	9.0	8.8
10	RDW	+/- 3.0	16.5	17.1
11	LY%	+/- 10.0	64.5	68.3
12	MO%	+/- 5.0	7.5	5.4
13	GR%	+/- 10.0	28.0	26.3
14	LY	+/- 1.0	1.4	1.4
15	MO	+/- 0.4	0.2	0.1
16	GR	+/- 1.0	0.6	0.5

