

Input data



Instrument Name Automated 3 Part Cell Counter

Make Nihon Kohden
Model MEK-1301K
Serial no 1009

Calibration date 16th jun 23

Installation place Promila Diagnostics Center



Name: Jaswinder Singh

INDIA

Designation: R.M.

Regd. Office : 308, Tower-A, Spazedge, Sector 47, Sohna Road, Gurgaon-122 002, Haryana, India Tel. No. : +91-124 4931000, Fax : +91-124-4931029, CIN No. : U33110HR2011PTC041863 GSTIN No. : 06AADCN5424H1ZM, Email : info@nihonkohden.in



Calibration Data

Instrument Name

: Automated 3 Part Cell Counter

Make Model : Nihon Kohden : MEK-1301K

Serial no

: 1009

Calibration date

: 16th jun 23

Installation place

: Promila Diagnostics Center

	CALIBRATION RUN DATA					
Sample No.	WBC	RBC	HGB	нст	PLT	
1	8.60	4.69	13.40	39.9	247.0	
2	8.70	4.66	13.30	39.8	253.0	
3	8.50	4.53	13.10	38.7	262.0	
4	8.40	4.54	13.10	38.9	252.0	
5	8.60	4.60	13.10	39.5	248.0	
6	9.14	4.61	13.20	39.5	250.0	
7	8.50	4.63	13.30	39.8	242.0	
8	8.50	4.56	12.90	39.0	250.0	
9	8.50	4.51	13.00	38.8	243.0	
10	8.80	4.64	13.30	39.8	259.0	
Mean	8.56	4.41	13.17	39.4	250.6	
CV%	1.37	1.30	1.19	1.20	2.50	

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 : Jaswinder Singl

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Precision Check Data

Instrument Name

: Automated 3 Part Cell Counter

Make

: Nihon Kohden

Model

: MEK-1301K

Serial no

: 1009

Calibration date

: 29th July 2022

Installation place

: Promila Diagnostics Center

	PRECISION RUN DATA						
Sample No.	WBC	RBC	HGB	НСТ	PLT		
1	7.4	4.49	12.6	39.4	255		
2	7.4	4.52	12.6	39.4	254		
3	7.2	4.49	12.9	39.3	242		
4	7.4	4.49	12.7	39.3	241		
5	7.2	4.49	12.9	39.2	243		
6	7	4.42	12.7	39.3	230		
7	7.3	4.52	12.9	39.2	242		
8	7.3	4.52	12.6	39.2	242		
9	7.2	4.49	12.7	39.2	234		
10	7.3	4.52	12.6	40	240		
Mean	7.27	4.495	12.72	39.35	242.3		
SD	0.125166556	0.030276504	0.131656118	0.241522946	7.645623294		
CV%	1.71	0.67	1.04	0.6	3.16		

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: Jaswinder Singh Designation: R.M.





Certification of Calibration

Instrument Name

: Automated 3 Part Cell Counter

Make

: Nihon Kohden

Model

: MEK-1301K

Serial no

: 1009

Calibration date

: 16-Jun-23

Installation place

: Promila Diagnostics Center

This is to certify that the above mentioned instrument has been successfully calibrated on **16th June 2023** with MEK-CAL lot no-**PLUS 236** bearing expiry till **5th July 2023**. During the calibration of the analyser, all CBC parameters were calibrated.

Ran Quality Controls **MEK-3D** (Low, Normal, and High) Lot no-225 bearing expiry of 5th Aug 2023, Result found within specified range.

Based on the manufacture recommended calibration interval the next due date of calibration is on 16th June 2024. Validity \pm 30days. Or depends on QC performance/subject to replacement or change in hardware.

For Nihon Kohden India Pvt. Ltd.

Name: Jaswinder Singh Designation: R.M.





Installation Qualification

Operation Qualification

&

Performance Qualification

Instrument Name	:	Automated 3 Part Cell Counter
Make	:	Nihon Kohden
Model	:	MEK-1301K
Serial no	:	1009

Validation Report

Instrument Name	:	Automated 3 Part Cell Counter
Make	:	Nihon Kohden
Model	:	MEK-1301K
Serial no		1009
Supplier Name	:	Nihon Kohden India Pvt. Ltd
Contact Name & Address	:	Promila Diagnostics Center



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Approval of IQ/OQ/PQ Procedure INDIA PRIVATE LIMITED

Both Promila Diagnostics Center and Nihon Kohden India Pvt. Ltd jointly resposible for the installation of Automated 3 Part Cell Counter MEK-1301K (1009) in the pathology

VALIDATION TEAM FROM VEI	NDOR:	18	ONKO	
Name: Jaswinder Singh		13/	= 1	
Designation: R.M.	desis	*	N O	
Signature :	3000	1. 1	Σ	
Nihon Kohden India Pvt. Ltd		6	7100	2

VALIDATION TEAM FROM PATHOLOGY LABORATORY:

Name: Designation: Signature:

Date:

CUSTOMER AUTHORIZATION:

Name:
Designation:
Signature:
Date:

II. INSTRUCTIONS

- 1 This document is to be completed at the time the instrument is installed at its current location Promila
- 2 An authorized (Company) representative will check the instrument and enter the specific data related
- 3 Employee of Pathology laboratory will verify each result and sign the result.
- 4 All validation from the normal specification to include and problems with installation will be noted

III. SCOPE

located in pathology.

This protocol defines the documentation that is used to evaluate the instrument installation in accordance with

Successful completion of this protocol verifies that this instrument has been installed, operated in accordance

Installation checks are performed to verify that the instrument has been installed with proper connection and utilities.

Operational qualification will evaluate the instrument have operational features available for the successful

Performance qualification will verify the actual functioning or performance of instrument manufacturer's specifications.



IV. CERTIFICATE OF PURCHASE ORDER COMPLIANCE:

I certify to the best of my knowledge, the instrument Automated 3 Part Cell Counter MEK-1301K (1009) has

V. INSTRUMENT DESCRIPTION:

C	In the company in the skill and in the	Verified	Data
S.no.	Instrument identification	Verified	Date
1	Automated 3 Part Cell Counter	Yes	16-Jun-23
2	Nihon Kohden	Yes	16-Jun-23
3	Model: MEK-1301K	Yes	16-Jun-23
4	Instrument ID	Yes	16-Jun-23
5	Serial no.1009	Yes	16-Jun-23
6	Size : As per speciifcation given	Yes	16-Jun-23
7	Power: As per speciifcation given	Yes	16-Jun-23

VI. UTILITIES:

S.no.	Instrument identification	Yes/No	Date
1	Environmental condition as required. (Free from dust, electrical and magnetic interference) Temperature: 15 – 30 OC Humidity: 30 to 85 % non condensing	Yes	16-Jun-23
2	Adequate space for installation: (As per the specification given)	Yes	16-Jun-23
3	Electrical Outlets: Actual voltage on site (228 VAC)	Yes	16-Jun-23
4	Grounded	Yes	16-Jun-23
5	Connected through UPS	Yes	16-Jun-23
6	Waste Liquid	Yes	16-Jun-23

VII. THE INSTRUMENT HAS BEEN CHECKED FOR THE FOLLOWING:

S.no.	Instrument identification	Yes/No	Date
1	Instrument is identified	Yes	16-Jun-23

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			NIHON KOHDEN
	Manufacturer's specification are	Yes	MINON KONDEN
2	included	163	NIHON KOHDEN-INDPAPRIVATE LIMITED
3	Accessories / Consumables are listed	Yes	16-Jun-23
4	Equipment manual from the manufacturer	Yes	16-Jun-23

ACCESSORIES / CONSUMABLES:

The following accessories were supplied with the instrument

S.no.	Description	Qty	Verified by	Date
1	Accessories box	1	Yes	16-Jun-23

VIII. LIST OF MANUALS AND CERTIFICATES

Supplier provided the following with the instrument

S.no.	Particulars	Available or not	Date
1	Operating Manual	Yes	16-Jun-23
2	Invoice	Yes	16-Jun-23
3	Safety instruction (equipment manual)	Yes	16-Jun-23
4	Training records	Yes	16-Jun-23
5	if any other	NO	16-Jun-23

IX. MAINTENANCE:

The instrument listed within this document will be placed under the control of Promila Diagnostics Center

A trained analyst using the manual provided with the instrumentation can perform basic and operation

Several levels of maintenance agreement and performance testing service to assist you in maintaining

X. INSTALLATION PROCEDURE:

1 Installation of Hardware and Software

Follow the instruction mentioned in the installation guide.

2 Installation of Printer Follow the instruction mentioned in the installation guide.



Operation Qualification:



Instrument Name	: Automated 3 Part Cell Counter	
Make	: Nihon Kohden	
Model	: MEK-1301K	
Serial no	: 1009	

XI. OPERATIONAL QUALIFICATION:

Following features/ functions are available in the instrument as per manufacturer's specification and verified

S.no.	Test Name	Y/N	Test Procedure	Date
1	Start up	Yes	Retest Testing	16-Jun-23
2	Calibration Feature	IVes I	Calibration	
			Performance	16-Jun-23
3	Quality Control	Yes	Control Running	16-Jun-23
4	Maintenance	IYes I	Operation	
			Maintenance	16-Jun-23

Printouts of the above features / tests attached (Yes/No)

Yes





1. Operator and Maintenance Training

This certifies that the technicians listed below have received basic user training for the system described.

S.no.	Training Program	Signature	Date
1	Instrument Set-up	Yes	16-Jun-23
2	System Operation	Yes	16-Jun-23
3	Basic troubleshooting	Yes	16-Jun-23

Traning given by: Name: Jaswinder Singh

Designation: R.M.

Training attended by:

lab staff

Performance Qualification:

Instrument Name	:	Automated 3 Part Cell Counter
Make	:	Nihon Kohden
Model	:	MEK-1301K
Serial no	:	1009

Following are the steps required to validate your instrument and method.

1 Run QC samples (Low, Normal and Abnormal) and verifies the values with acceptable range given in the insert

Printouts attached from instrument (Yes/No)

Yes

2 Run 10 time patient sample into the system and calculate the %CV. Acceptance limits of %CV (≤ 5 %) shall be

Printouts attached from instrument (Yes/No)

Yes

QC RESULTS

PASS/FAIL=

PASS

PRECISION CHECK

PASS/FAIL=

PASS

VALIDATION TEAM FROM VENDOR:
Name: Jaswinder Singh

Designation: R.M.

Signature:

Nihon Kohden India Pvt. Ltd

VALIDATION TEAM FROM PATHOLOGY LABORATORY:

Name:

Designation : Signature :

Date :

CUSTOMER AUTHORIZATION:

Name:

Designation : Signature : Date :