

9 Calibration

9.1 Please refer to Whole Blood Calibration Report Attached

9.2 PD Mode Calibration

(NOTE: If Applicable)

Material: XN CAL (1:7 Dilution)

Lot: Expiry:

		- 1	N/a	14	Te.	Lavorage	Assa	y Valu	ol Oli	d Cal	New Cal	% Diff	Status
Parameters			2 3	14	10	Average	A STATE OF THE PARTY IN	-	NA	INA	#VALUE!	#VALUE!	#VALUE!
RBC_PD_CAL	NA	NA	INA	NA	NA	#DIV/0!	NA	NA	-	and the same of	#VALUE!	#VALUE!	#VALUE!
PLT PD CAL	NA.	NA	NA	NA	NA	#DIV/0!	NA	NA.	INA	NA	The second secon	#VALUE!	#VALUE!
HGB PD CAL	NA	NA	NA	NA.	NA.	#DIV/0!	NA.	NA	NA	INA	#VALUE!		_
	INA	NA	NA	NA.	NA	#DIV/0I	INA	NA	NA	NA	#VALUE!	#VALUE!	#VALUE!
WBC_PD_CAL			-	-	NA	#DIV/01	NA	NA	NA.	NA	#VALUE!	#VALUE!	#VALUE!
WBC-D/WDF_PD	NA	NA	NA.	NA	-	The second second second	-	NA	NA	NA.	#VALUE!	#VALUE!	#VALUE!
RET_PD_CAL*	NA:	NA.	NA.	NA	NA	#DIV/0!	NA_	-		NA.	#VALUE!	#VALUE!	#VALUE!
RBCO PD CAL*	NA	NA	NA	NA.	NA.	#DIV/0!	NA	NA	NA	-	#VALUE!	#VALUE!	#VALUE!
PLTO PD CAL*	NA	NA	NA	NA	NA.	#DIV/0!	NA	NA	NA	NA	#AVEOR!	H Tricon.	

NOTE: Only Applicable when RET license has been activated NOTE: Please attach PD Mode Calibration results screenshots

9.3 Body Fluid Calibration

(NOTE: If Applicable)

Material: XN CAL

Lot: NA Expiry:NA

			272	Ta	Te.	Average	Assay Value	Old Cal	New Cal	% Diff	Status
Parameters		100	2 3	4	DIA.	NA	NA	NA	NA	#VALUE!	#VALUE!
RBC_BF_CAL*	(NA	NA	NA	NA	NA		NA.	NA	NA	#VALUE!	#VALUE!
WEC BE CAL.	NA	NA.	NA	NA.	NA	NA _	TAPE	14.1			STATE OF THE STATE OF

*NOTE: Only Applicable when BF license has been activated NOTE: Please attach BF Mode Calibration results acreenshots

- 10 QC Verification
- 10.1 Please attach QC radar charts print outs for QC runs after the calibration.
- 11 Pipetors/Dilutors reproducibility and accuracy checked.



9 Calibration

9.1 Please refer to Whole Blood Calibration Report Attached

9.2 PD Mode Calibration

(NOTE: If Applicable)

Material: XN CAL (1:7 Dilution)

Lot: Expiry:

	-	41	2 3	14	5	Average	Assa	y Valu	el Old	Cal	New Cal	% Diff	Status
Parameters	-			7	100	The second second	INA	INA	NA	NA.	#VALUE!	#VALUE!	#VALUE!
RBC_PD_CAL	NA.	NA	NA	NA	NA.	#DIV/0!	-	-	-	NA	#VALUE!	#VALUE!	#VALUE!
PLT_PD_CAL	NA	NA	NA	NA	NA	#DIV/0!	NA	NA	NA	-	#VALUE!	#VALUE!	#VALUE!
HGB PD CAL	NA	NA	NA	NA	NA .	#DIV/01	NA	NA.	NA	NA		#VALUE!	#VALUE!
WBC_PD_CAL	NA	NA	NA	NA	NA	#DIV/01	NA	NA	NA.	NA	#VALUE!	The second second second second	#VALUE!
	NA.	NA.	NA	NA	NA	#DIV/01	NA	NA	NA	NA.	#VALUE!	#VALUE!	The second division is not a second
WBC-D/WDF_PD	-		_	the second	NA	#DIV/0!	NA.	NA	NA.	NA.	#VALUE!	#VALUE!	#VALUE!
RET_PD_CAL*	NA.	NA	NA	NA	_	The second secon	-	NA	NA	NA.	#VALUE!	#VALUE!	#VALUE!
RBCO PD_CAL*	INA.	NA.	NA	NA	NA	#DIV/0!	INA	_	-	NA.	#VALUE!	#VALUE!	#VALUE!
PLTO PD CAL*	NA.	NA:	NA	INA	NA	#DIV/0!	NA	NA	INA	live	1 11 11 11		-330

"NOTE: Only Applicable when RET license has been activated NOTE: Please attach PD Mode Calibration results screenshots

9.3 Body Fluid Calibration

(NOTE: If Applicable)

Material: XN CAL

Lot: NA Expiry:NA

ACTIVITY AND A SECOND			-	12	Te.	Average	Assay Value	Old Cal	New Cal	% Diff	Status
Parameters		1	2 3	14	510	NA	NA	NA	NA	#VALUE!	#VALUE!
RBC_BF_CAL*	NA	NA	NA.	NA	NA	NA.	NA	NA	NA	#VALUE!	#VALUE!
MOC DE CAL	NA	NA	NA.	NA	INA	130	101			Marie 1000 (1891 (1800-)	

*NOTE: Only Applicable when BF license has been activated NOTE: Please attach BF Mode Calibration results screenshots

- 10 QC Verification
- 10.1 Please attach QC radar charts print outs for QC runs after the calibration.
- 11 Pipetors/Dilutors reproducibility and accuracy checked.



Certification			
We certify that the successfully con		XN-330 accordance	Automated Hematology Analyzer S/N: with the manufacturer's recommendation
Report and Cor			
	Blok.	uh.	
Signature (Eng			
Name:	Rahul Thakur		
Date:	22-02-2023		
Signature (Eng	ineer 2)		
Signature (Eng	ineer 2)		
	ineer 2)		
Name: Date:			
Name:		ited By :	
Name: Date:		ited By:	
Name: Date:		ited By :	
Name: Date:		ited By:	
Name: Date:		ited By:	The same of the sa
Name: Date: Report Review	ed and Accep	ited By:	A STANDARD OF THE STANDARD OF
Name: Date:	ed and Accep	go. (The second secon
Name: Date: Report Review	ed and Accep	go. (na kunal

has been

Sample No.: BACKGROUNDCHECK Adapter: Pos.: 2023/02/22 14:59:49 WE Patient ID: Ward: Doctor: Name: Birth: Sex: Sample Comment: Nickname: XN-L WDF-CBC WDF 副 [10³/uL] 0.00 WBC 0.00 [10^6/uL] RBC HGB 0.0 [g/dL] [%] HCT 0.0 MCV fL] MCH pg] MCHC g/dL] PLT [10³/uL] 1 fL] RDW-SD RDW-CV %] PDW fL] MPV fL] P-LCR %] % PCT NEUT 10^3/uL] % % % LYMPH 10^3/uL MONO 10^3/uL EO 10^3/uL] BASO [10^3/uL] PLT RBC IG [10^3/uL]

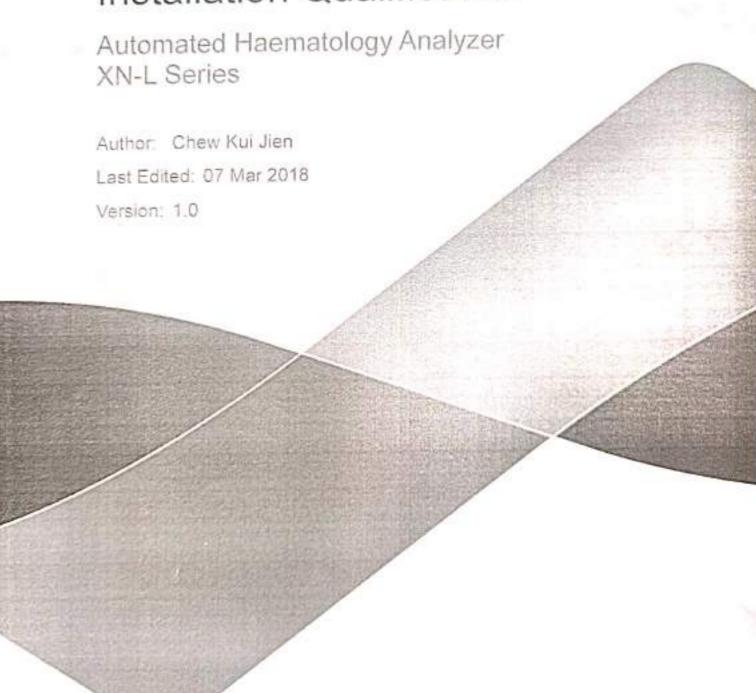
WBC IP Message

RBC IP Message

PLT IP Message



Installation Qualification



1. General Outline

1-1 Performer

The following person shall perform Installation Qualification (IQ) procedures as the person in charge of validation of the equipment in terms of calibration and testing.

Name

: Rahul Thakur

Company

: Sysmex India Pvt. Ltd.

Date (Day/Month/ Year)

: 22-02-2023

Signature

Ohnkry

1-2 Reviewer

People in charge of reviewing installation procedures and being representatives of the customer shall fill out the following blanks:

Name

.

Institution OR Company

2

Date (Day/Month/ Year)

100

Signature / Initial

8

Name

*55

Institution OR Company

.

Title

(4.5)

Date (Day/Month/ Year)

Signature / Initial

*

Installation Qualification	XN-L Series			
marks:				

Installation Qualification

Model Number	XN - 330	
Serial Number	14153	
Software Version	00-24	
Installation Site	22/02/2023	

By the subsequent signature it becomes evident that all validation procedures for Installation Qualification (IQ) of the above stated equipment are completed by the performer.

-Performer

Name : Rahul Thakur

Signature :

Date (day/month/year) : 22/02/2023

By the subsequent signature the reviewer witnesses that all validation procedures for Installation Qualification (IQ) of the above stated equipment are completed by the performer.

-Reviewer



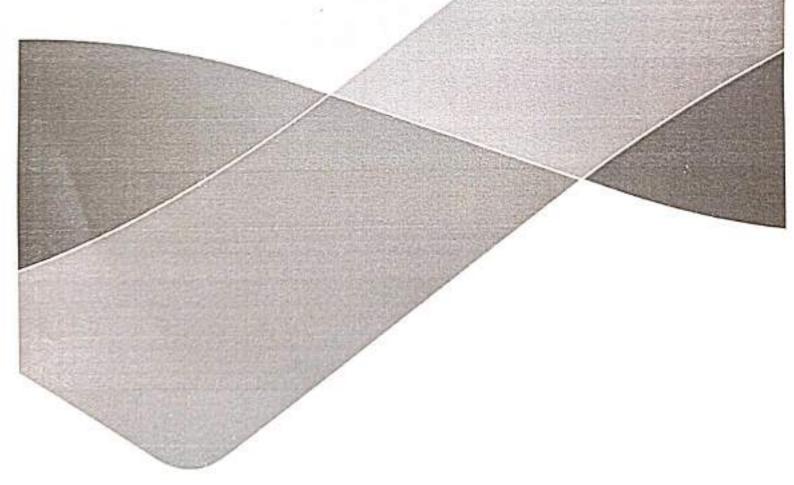
Operational Qualification

Automated Haematology Analyzer XN-L Series

Author: Chew Kui Jien

Last Edited: 08 Mar 2018

Version: 1.0



The following person shall perform Operational Qualification (OQ) procedures as the person in charge of validation of the equipment in terms of calibration and testing.

Name

: Rahul Thakur

Company

: Sysmex India Pvt. Ltd.

Date (Day/Month/ Year)

: 22/02/2023

Signature / Initial

Thekry

1-2 Reviewer

People in charge of reviewing installation procedures and being representatives of the customer shall fill out the following blanks:

Name

83

Institution OR

Company

Date (Day/Month/ Year)

12

Signature / Initial

83

Name

.

Institution OR

- 4

Company

76

Title

2.0

Date (Day/Month/ Year)

3.5

Signature / Initial

3-1 Equipment

Model Number	XN-330	
Serial Number	14153	
Software Version Number	00-24	
Installation Site	22-02-2023	

By the subsequent signature it becomes evident that all validation procedures for Operational Qualification (OQ) of the above stated equipment are completed by the performer.

- 1	-						
_1	Pε	100	tn	m	m	0	٧
-	T 10	5E I	HU.	ш		6	

Name:	Rahul Thakur
Signature:	Ohakry
Date (day/month/year):	22-02-2023

By the subsequent signature the reviewer witnesses that all validation procedures for Operational Qualification (OQ) of the above stated equipment are completed by the performer.

Occount was

Name:

Signature:

Date (day/month/year):

-Reviewer

-Reviewer

Name;

Signature:

Date (day/month/year):

End of Document



PERFORMANCE QUALIFICATION

Instrument

: XNL-330 Hematology Analyzer

Sr. No: 14153

Laboratory

: Rajasthan Vikas Sansthan,

Kudi Hud, City Circle Jodhpur- 342005

Manufacturer

Sysmex Corporation

Supported by

1002, Damji Shamji Business Galleria,

10th Floor, LBS Marg

Kanjurmarg (West), Mumbai 400 078, India Tel: +91 (22) 6112 6666 Fax: +91 (22) 2577 6790



www.sysmex.co.in

CIN:U33120MH1998PT115943



PERFORMANCE QUALIFICATION PROTOCOL

This Performance Qualification protocol will be performed on the installation located at

Rajasthan Vikas Sansthan, Kudi Hud, City Circle Jodhpur- 342005

This protocol will define the documentation that will be used to evaluate the instrument and documented in accordance with the user specification requirements. Successful completion of this protocol will verify that the instrument performance consistently meets pre-determined specifications under normal conditions.

Performance checks will be carried out by repeatedly running the system on its intended schedule and record the information/data to demonstrate that it consistently meets the required performance, as expected.

Department personnel along with the trained personnel from Sysmex will perform qualification studies as mentioned in this protocol. Department personnel will record the information and write the report. The technical person from Sysmex will verify the records. The reports will be reviewed by head of the department and approved by QA person. This protocol is to be reviewed and approved by the head of the department and QA.

Any exceptional conditions encountered during the qualification studies will be identified for review and documented in deviation report. Exceptional conditions will be investigated, and appropriate course of action will be determined.



www.sysmex.co.in

Sysmex India Pvt Ltd HO. 1002, Damji Shamji Business Galleria,10° Floor , LBS Marg, Kanjurmarg (West), Mumbai 400078, India Tel. +91-22-6112-6666 Fax. +91-22-2577-6790 Factory, Village Malpur, Nalagarh Road, Baddi 173205, H. P. Tel. +91-9218422282/9816672282

CIN:U33120MH1998PT115943



Report Sign Off:

Prepared by:	Mr. R	ıvi Kumar Sah	
Title: Application Sp	pecialist	Sign:	Date: 23.05.2023
Checked By: Mr. Vi (Manager-North)	kas Dagar	Sign:	Date: 23.05.2023
Approved by:	Rajast	han Vikas Sansthan,	Jodhpur
Name:	Mr. K	rishna Kumar	
Title: CTO		Sign: 19-29	Date: 23.05.2023
	P	YAS MEDICITY: CIT lof No. F-320-21, MIA AIIMS Road, JODHPU	Phase-II,



Sysmex India Pvt Ltd

HO. 1002, Damji Shamji Business Galleria,10° Floor , LBS Marg, Kanjurmarg (West), Mumbai 400078, India Tel. +91-22-6112-6666 Fax. +91-22-2577-6790

Factory, Village Malpur, Nalagarh Road, Baddi 173205, H. P. Tel. +91-9218422282/9816672282

www.sysmex.co.in

CIN:U33120MH1998PT115943





PQ SCHEDULE

The following activities mentioned below must be performed to complete the performance qualification.

Contents

Evaluation met Lab Managers for Whole Blood Mode

- 1. Precision
- 2. Accuracy
- 3. Linearity
- 4. Carryover
- 5. Limit of Blank
- 6. Limit of Detection and Limit of Quantitation

PERFORMANCE QUALIFICATION PROCEDURE

Performance Qualification

1. Precision Check

Procedure for Precision Testing

Requirements: - 1 Peripheral Blood sample

- Set the analyser to WB Mode, analyse Peripheral Blood for 11 consecutive times. The coefficient of variation of counting for each analysing parameter should meet the following condition.
- Input the data into the provided table. Calculate Mean, SD and CV%.
- Compare these values with the performance criteria for Within-run Precision Table.
- Acceptable Variation are as follows:



Sysmex India Pvt Ltd

HO. 1002, Damji Shamji Business Galleria,10° Floor , LBS Marg, Kanjurmarg (West), Mumbai 400078, India

Tel. +91-22-6112-6666 Fax. +91-22-2577-6790

Factory. Village Malpur, Nalagarh Road, Baddi 173205, H. P. Tel. +91-9218422282/9816672282

www.sysmex.co.in

CIN: U33120MH1998PT115943

