

XN-L Series Calibration Report

Customer :	Unipath Specialty Laboratory (Gujarat) LLP	Date:	2/12/2023
Model:	XN-350	Serial No:	17249

1 MECHANICAL ADJUSTMENTS

Positions	Perform
Piercer/Pipette Position	Performed
Tube Holder Position	NA
Hand Position	NA
BCR Position	NA

2 BACKGROUND VERIFICATION

Parameters	Results	Acceptable Range	Status
WBC	0.00	≤ 0.10 x 10*3/uL	PASS
RBC	0.00	≤ 0.02 x 10*6/uL	PASS
HGB	0.0	≤ 0.1 g/dL	PASS
PLT-I	0	≤ 10 x 10*3/µL	PASS
RBC-0*	NA	≤ 0.02 x 10*6/uL	NA
PLT-O*	NA	≤ 10 x 10*3/µL	NA

^{*} Only applicable when RET license is activated

3 OPTICAL AXIS VERIFICATION

3.1 CELLPACK DFL 10ml + DUKE 4207A 5 Drops. The diluted latex was analyzed to determine the Optical Axis of the FSC (Rough). The results are as below:

Parameters	Results	Acceptable Range	Status
FSC (X) Rough	NA	70 - 130	NA
FSC (W) Rough	NA	Less than 0.15	NA

3.2 CELLPACK DCL 10ml + DUKE 4207A 5 Drops. The diluted latex was analyzed to determine the Optical Axis of the FSC (Fine). The results are as below :

Parameters	Results	Acceptable Range	Status
FSC (X) Fine	92.3	70 - 130	PASS
FSC (W) Fine	0.119	Less than 0.35	PASS

3.3 CELLPACK DCL 10ml + PS-FLUORED-L2830-4 2 Drops. The diluted latex was and determine the Optical Axis of the SFL(Fine) & SSC(Fine). The results are as below:

Parameters	Results	Acceptable Range	Status
SFL (X)	118.3	For Record Purpose	
SFL (W)	0.127	lower than 0.20	PASS
SSC (X)	60.3	50 - 100	PASS
SSC (W)	0.166	For Record Purpose	

NOTE: Please attach FSC(X) rough, FSC(X) fine, SFL(X) fine, SSC(X) fine peaks screenshots.



4 RBC CLOG LEVEL ADJUSTMENT

4.1 The RBC clog adjustment is monitored after the background check. The result is as below:

Parameters	Results	Acceptable Range	Status
RBC CLOG	100	100 ± 1	PASS

5 HGB BLANK ADJUSTMENT

Parameters	Result	ts Acceptable Rang	e Status
HB Blank Ga	in 5054	5000 ± 200	PASS

6 ASPIRATION SENSOR BLANK ADJUSTMENT

Parameters	Results	Acceptable Range	Status
Aspiration Sensor	5101	5000 ± 200	PASS

7 ASPIRATION SENSOR SPAN ADJUSTMENT

7.1 *Material : XN-CHECK / XN CAL

Lot :- 32381402 Expiry :- 05/12/2023

* Cross whichever not applicable

Parameters	Results	Acceptable Range	Status
Aspiration Sensor Span	13064	13000 ± 500	PASS

8 **SENSITIVITY ADJUSTMENTS**

8.1 Material :XN-CAL

Lot :- 33032101 Expiry :- 03/12/2023

Parameters	Results	Assay Value	Acceptable Range	Status	Scattergram normal?
WDF-X	163.5	163.5	± 3 ch	PASS	
WDF-Y	95.4	94.4	± 3 ch	PASS	Yes
WDF-Z / WDF-FSC	113.7	114.5	± 2.5 ch	PASS	

Parameters	Results	Assay Value	Acceptable Range	Status	Scattergram normal?
RBC-X	NA	NA	± 1 ch	#VALUE!	
RBC-Y	NA	NA	± 3 ch	#VALUE!	NA
RBC-Z	NA	NA	± 2 ch	#VALUE!	

Parameters	Results	Assay Value	Acceptable Range	Status
MCV	80.6	81.3	± 1 ch	PASS
MPV	9.8	9.9	± 0.3 ch	PASS
HGB	12.3	12.30	± 0.2g/dl	PASS

NOTE: Please attach sensitivity adjustment screenshots.



9 <u>Calibration</u>

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:- 33032101 Expiry:- 03/12/2023

Parameters		1	2	3	4	5	Average	Assay Value	Old Cal	New Cal	% Diff	Status
RBC_PD_CAL	4	4.38	4.35	4.32	4.40	4.30	4.35	4.402	1030	1042	-1.20	PASS
PLT_PD_CAL		252	239	242	248	246	245	247.9	980	990	-1.02	PASS
HGB_PD_CAL		12.3	12.2	12.2	12.4	12.3	12.3	12.30	1010	1012	-0.16	PASS
WBC_PD_CAL	-	7.27	7.32	7.41	7.50	7.59	7.42	7.593	970	993	-2.36	PASS
WBC-D/WDF_PD	(6.87	6.85	6.94	7.04	7.15	6.97	7.100	1005	1024	-1.87	PASS
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	#VALUE!	#VALUE!	#VALUE!
PLTO_PD_CAL*	NA		NA	NA	NA	NA	#DIV/0!	NA	NA	#VALUE!	#VALUE!	#VALUE!

*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:- 33032101 Expiry:- 03/12/2023

Parameters	1	2	3	4	5	Average	Assay Value	Old Cal	New Cal	% Diff	Status
RBC_BF_CAL*	4.292	4.36	4.36	4.29	4.23	4.307	4.402	1010	1032	-2.20	PASS
WBC_BF_CAL*	7.093	7.04	7.06	7.12	7.04	7.070	7.100	978	982	-0.43	PASS

*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.



12 <u>Certification</u>

Name:

Date:

Ms. Pinkal Patel 2/12/2023

We certify that the XN-350 Automated Hematology Analyzer S/N: 17249 has been successfully calibrated in accordance with the manufacturer's recommendations.

Report and Commissioning Performed By :							
metul.							
Signature (Engineer 1)							
Name: Mehul Ekavadiya Date: 2/12/2023							
Signature (Engineer 2)							
Name: Date:							
Report Reviewed and Accepted By :							
Photos							
Signature (Customer)							