

CALIBRATION CERTIFICATE

NAME OF THE CUSTOMER Sri Vishnu Healthcare Unit H.No.10-35/4, Rajesh towers, Pothireddy pally, sangareddy, 502001	MAKE Sysmex Corporation Sysmex India Pvt. Ltd. 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
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PRODUCT NAME XN-350 HEAMATOLOGY ANALYZER	SERIAL NO 16464
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This is to certify that the XN-350 Hematology Analyzer has been calibrated with XN CAL
 Calibrator (Lot No 30232101, Exp. Date 26-02-2023)

S.NO	TEST PARAMETERS	MEASURED/CALIBRATED	REMARKS
1.	Start up	WBC/RBC/HGB/PLT	PASS
2.	Reproducibility	WBC/RBC/HGB/MCV/HCT/PLT	PASS
3.	QC	WBC/RBC/HGB/HCT/PLT	PASS
4.	Calibration (Lot No. 23322101)	WBC/RBC/HGB/HCT/PLT	PASS

Date of Calibration: 28/01/2023	Due date for Calibration: 27/01/2024
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NAME OF THE ENGINEER

M. PRATHIK



SIGNATURE

M.prathik





Traceability and Uncertainty

XN CAL Sysmex Calibrator System

XN-L Series Automated Hematology Analyzer

LOT NO: 3023 2101

EXP. DATE: 26-Feb-2023

Parameter	Reference Method	Reference Material	Assigned Value	Uncertainty*	Unit
WBC-C	*1	-	8.018	0.21	10 ⁹ /L
WBC-D	*1	-	7.535	0.19	10 ⁹ /L
RBC	*1	-	4.372	0.066	10 ¹² /L
RBC-O	*1	-	4.268	0.090	10 ¹² /L
PLT	*2	-	247.1	10	10 ⁹ /L
PLT-O	*2	-	246.2	11	10 ⁹ /L
HGB	*3, *4	-	11.83	0.18	g / dL
HCT	*5	-	34.71	0.60	%

* : This uncertainty (expanded uncertainty: k=2 was calculated in accordance with the "Guide to the expression of uncertainty in measurement" (GUM: 1995).

*1: ICSH Expert Panel on Cytometry, Clinical Laboratory Haematology, 16, 131-138, 1994

"Reference method for the enumeration of erythrocytes and leucocytes"

*2: ICSH Expert Panel on Cytometry and International Society of Laboratory Hematology Task Force on Platelet Counting, American Journal of Clinical Pathology, 115, 460-464, 2001

"Platelet Counting by the RBC/Platelet Ratio method – A reference Method"

*3: CLSI, H15-A3

"Reference and selected procedures for the quantitative determination of hemoglobin in blood – 3rd edition; Approved standard"

*4: Journal of Clinical Pathology, 49, 271-274, 1996

"Recommendation for reference method for haemoglobinometry in human blood (ICSH standard 1995) and specification for international haemoglobin cyanide reference preparation (4th ed.)"

*5: CLSI H7-A3

"Procedure for Determining Packed Cell Volume by the Microhematocrit Method – 3rd edition; Approved Standard"



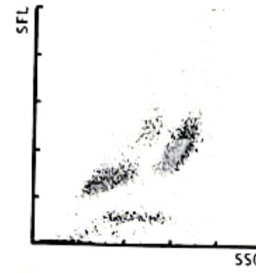
Sample No.: CAL-CAL-01
 Patient ID:
 Name:
 Sample Comment:

Ward: Adapter:

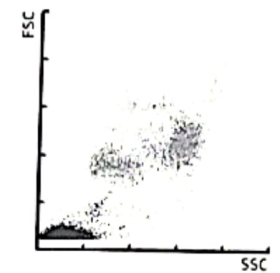
Pos.: 2023/01/28 18:20:11 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.32	[10 ³ /uL]		
RBC	4.43	[10 ⁶ /uL]		
HGB	11.9	[g/dL]		
HCT	35.0	[%]		
MCV	79.0	[fL]		
MCH	26.9	[pg]		
MCHC	34.0	[g/dL]		
PLT	247	[10 ³ /uL]		
RDW-SD	47.7	[fL]		
RDW-CV	16.4	[%]		
PDW	9.0	[fL]		
MPV	10.1	[fL]		
P-LCR	22.3	[%]		
PCT	0.25	[%]		
NEUT	3.08	[10 ³ /uL]	42.1	[%]
LYMPH	2.18	[10 ³ /uL]	29.8	[%]
MONO	0.83	[10 ³ /uL]	11.3	[%]
EO	0.81	[10 ³ /uL]	11.1	[%]
BASO	0.42	[10 ³ /uL]	5.7	[%]
IG	0.80	[10 ³ /uL]	10.9	[%]

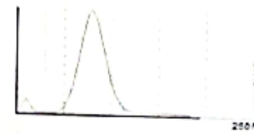
WDF



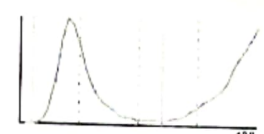
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



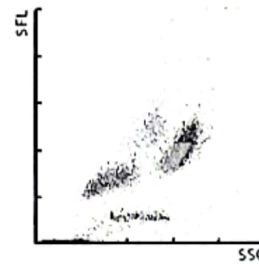
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 Name:
 Sample Comment:

Adapter:
 Ward:

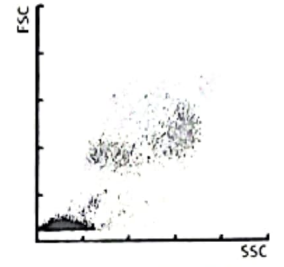
Pos.: 2023/01/28 18:21:46 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.53	[10 ³ /uL]		
RBC	4.40	[10 ⁶ /uL]		
HGB	11.8	[g/dL]		
HCT	34.8	[%]		
MCV	79.1	[fL]		
MCH	26.8	[pg]		
MCHC	33.9	[g/dL]		
PLT	236	[10 ³ /uL]		
RDW-SD	47.4	[fL]		
RDW-CV	16.4	[%]		
PDW	8.9	[fL]		
MPV	9.9	[fL]		
P-LCR	20.6	[%]		
PCT	0.23	[%]		
NEUT	3.27	[10 ³ /uL]	43.4	[%]
LYMPH	2.20	[10 ³ /uL]	29.2	[%]
MONO	0.84	[10 ³ /uL]	11.2	[%]
EO	0.75	[10 ³ /uL]	10.0	[%]
BASO	0.47	[10 ³ /uL]	6.2	[%]
IG	0.89	[10 ³ /uL]	11.8	[%]

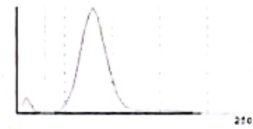
WDF



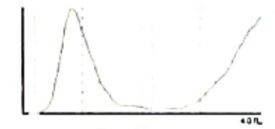
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



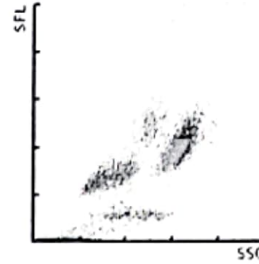
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 Patient ID:
 Name:
 Sample Comment:

Adapter:
 Ward:

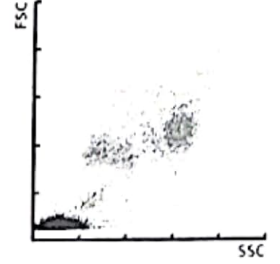
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 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.59	[10 ³ /uL]		
RBC	4.39	[10 ⁶ /uL]		
HGB	11.9	[g/dL]		
HCT	34.9	[%]		
MCV	79.5	[fL]		
MCH	27.1	[pg]		
MCHC	34.1	[g/dL]		
PLT	240	[10 ³ /uL]		
RDW-SD	47.9	[fL]		
RDW-CV	16.5	[%]		
PDW	8.9	[fL]		
MPV	10.0	[fL]		
P-LCR	21.1	[%]		
PCT	0.24	[%]		
NEUT	3.36	[10 ³ /uL]	44.4	[%]
LYMPH	2.25	[10 ³ /uL]	29.6	[%]
MONO	0.82	[10 ³ /uL]	10.8	[%]
EO	0.74	[10 ³ /uL]	9.7	[%]
BASO	0.42	[10 ³ /uL]	5.5	[%]
IG	0.89	[10 ³ /uL]	11.7	[%]

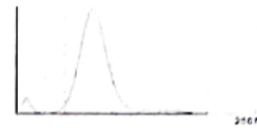
WDF



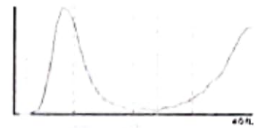
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



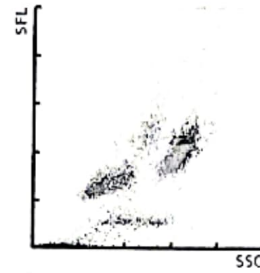
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 Patient ID:
 Name:
 Sample Comment:

Ward: Adapter:

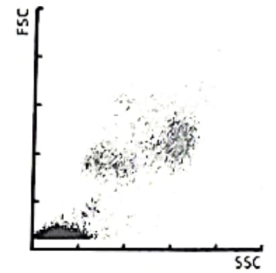
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 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.52	[10 ³ /uL]		
RBC	4.37	[10 ⁶ /uL]		
HGB	11.9	[g/dL]		
HCT	34.7	[%]		
MCV	79.4	[fL]		
MCH	27.2	[pg]		
MCHC	34.3	[g/dL]		
PLT	236	[10 ³ /uL]		
RDW-SD	47.9	[fL]		
RDW-CV	16.4	[%]		
PDW	9.1	[fL]		
MPV	10.0	[fL]		
P-LCR	22.0	[%]		
PCT	0.24	[%]		
NEUT	3.25	[10 ³ /uL]	43.1	[%]
LYMPH	2.29	[10 ³ /uL]	30.5	[%]
MONO	0.81	[10 ³ /uL]	10.8	[%]
EO	0.73	[10 ³ /uL]	9.7	[%]
BASO	0.44	[10 ³ /uL]	5.9	[%]
IG	0.87	[10 ³ /uL]	11.6	[%]

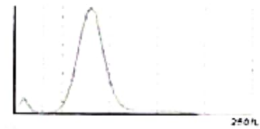
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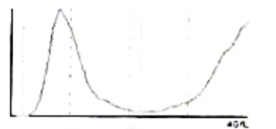
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



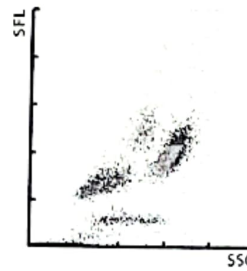
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 Patient ID:
 Name:
 Sample Comment:

Adapter:
 Ward:

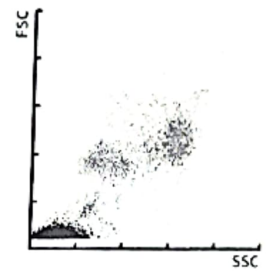
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 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.37	[10 ³ /uL]		
RBC	4.42	[10 ⁶ /uL]		
HGB	11.8	[g/dL]		
HCT	35.0	[%]		
MCV	79.2	[fL]		
MCH	26.7	[pg]		
MCHC	33.7	[g/dL]		
PLT	237	[10 ³ /uL]		
RDW-SD	47.4	[fL]		
RDW-CV	16.3	[%]		
PDW	8.9	[fL]		
MPV	10.3	[fL]		
P-LCR	23.7	[%]		
PCT	0.24	[%]		
NEUT	3.12	[10 ³ /uL]	42.3	[%]
LYMPH	2.19	[10 ³ /uL]	29.7	[%]
MONO	0.83	[10 ³ /uL]	11.3	[%]
EO	0.84	[10 ³ /uL]	11.4	[%]
BASO	0.39	[10 ³ /uL]	5.3	[%]
IG	0.85	[10 ³ /uL]	11.5	[%]

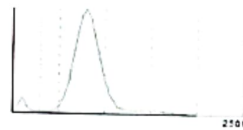
WDF



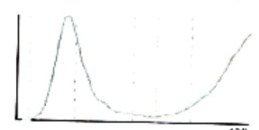
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



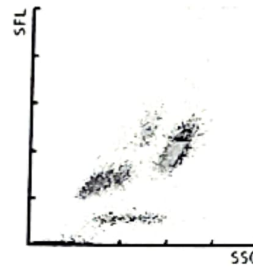
Sample No.: CAL-CAL-06
 Patient ID:
 Name:
 Sample Comment:

Ward: Adapter:

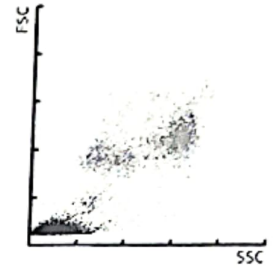
Pos.: 2023/01/28 18:27:56 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.58	[10 ³ /uL]		
RBC	4.39	[10 ⁶ /uL]		
HGB	11.9	[g/dL]		
HCT	34.9	[%]		
MCV	79.5	[fL]		
MCH	27.1	[pg]		
MCHC	34.1	[g/dL]		
PLT	235	[10 ³ /uL]		
RDW-SD	48.0	[fL]		
RDW-CV	16.3	[%]		
PDW	9.4	[fL]		
MPV	10.0	[fL]		
P-LCR	22.3	[%]		
PCT	0.24	[%]		
NEUT	3.05	[10 ³ /uL]	40.2	[%]
LYMPH	2.40	[10 ³ /uL]	31.7	[%]
MONO	0.84	[10 ³ /uL]	11.1	[%]
EO	0.86	[10 ³ /uL]	11.3	[%]
BASO	0.43	[10 ³ /uL]	5.7	[%]
IG	0.81	[10 ³ /uL]	10.7	[%]

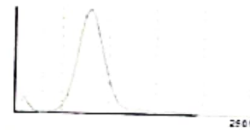
WDF



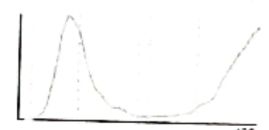
WDF - CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



Sample No.: CAL-CAL-07
 Patient ID:
 Name:
 Sample Comment:

Ward:

Adapter:

Pos.:

2023/01/28 18:29:23 WB

Doctor:

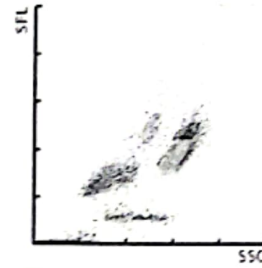
Birth:

Sex:

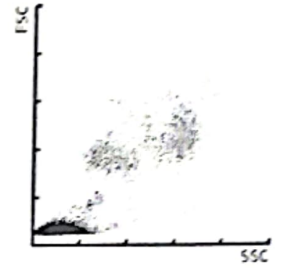
Nickname: XN-L

WBC	7.73	[10 ³ /uL]		
RBC	4.36	[10 ⁶ /uL]		
HGB	11.8	[g/dL]		
HCT	34.6	[%]		
MCV	79.4	[fL]		
MCH	27.1	[pg]		
MCHC	34.1	[g/dL]		
PLT	238	[10 ³ /uL]		
RDW-SD	47.3	[fL]		
RDW-CV	16.3	[%]		
PDW	9.0	[fL]		
MPV	10.2	[fL]		
P-LCR	21.9	[%]		
PCT	0.24	[%]		
NEUT	3.41	[10 ³ /uL]	44.2	[%]
LYMPH	2.37	[10 ³ /uL]	30.7	[%]
MONO	0.80	[10 ³ /uL]	10.3	[%]
EO	0.73	[10 ³ /uL]	9.4	[%]
BASO	0.42	[10 ³ /uL]	5.4	[%]
IG	0.91	[10 ³ /uL]	11.8	[%]

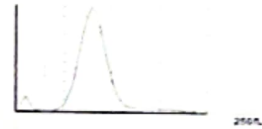
WDF



WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



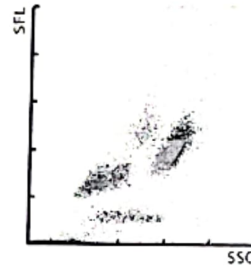
Sample No.: CAL-CAL-08
 Patient ID:
 Name:
 Sample Comment:

Ward: Adapter:

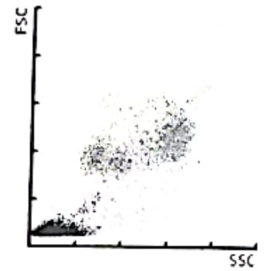
Pos.: 2023/01/28 18:30:57 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.48	[10 ³ /uL]		
RBC	4.39	[10 ⁶ /uL]		
HGB	11.9	[g/dL]		
HCT	34.9	[%]		
MCV	79.5	[fL]		
MCH	27.1	[pg]		
MCHC	34.1	[g/dL]		
PLT	243	[10 ³ /uL]		
RDW-SD	47.2	[fL]		
RDW-CV	16.4	[%]		
PDW	9.0	[fL]		
MPV	10.0	[fL]		
P-LCR	21.5	[%]		
PCT	0.24	[%]		
NEUT	3.23	[10 ³ /uL]	43.1	[%]
LYMPH	2.25	[10 ³ /uL]	30.1	[%]
MONO	0.82	[10 ³ /uL]	11.0	[%]
EO	0.68	[10 ³ /uL]	9.1	[%]
BASO	0.50	[10 ³ /uL]	6.7	[%]
IG	0.82	[10 ³ /uL]	11.0	[%]

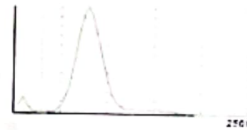
WDF



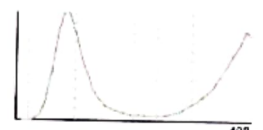
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



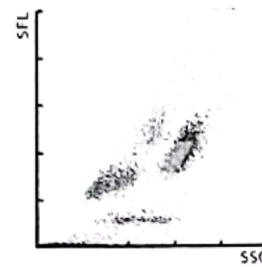
Sample No.: CAL-CAL-09
 Patient ID:
 Name:
 Sample Comment:

Adapter:
 Ward:

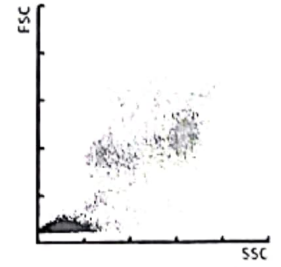
Pos.: 2023/01/28 18:32:30 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.45	[10 ³ /uL]		
RBC	4.32	[10 ⁶ /uL]		
HGB	11.8	[g/dL]		
HCT	34.2	[%]		
MCV	79.2	[fL]		
MCH	27.3	[pg]		
MCHC	34.5	[g/dL]		
PLT	242	[10 ³ /uL]		
RDW-SD	47.9	[fL]		
RDW-CV	16.4	[%]		
PDW	9.0	[fL]		
MPV	10.5	[fL]		
P-LCR	24.5	[%]		
PCT	0.25	[%]		
NEUT	3.21	[10 ³ /uL]	43.1	[%]
LYMPH	2.20	[10 ³ /uL]	29.5	[%]
MONO	0.74	[10 ³ /uL]	9.9	[%]
EO	0.84	[10 ³ /uL]	11.3	[%]
BASO	0.46	[10 ³ /uL]	6.2	[%]
IG	0.84	[10 ³ /uL]	11.3	[%]

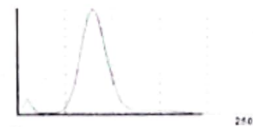
WDF



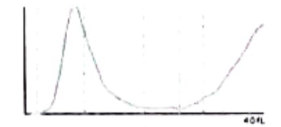
WDF - CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



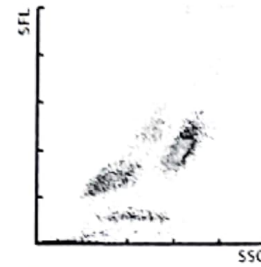
Sample No.: CAL-CAL-10
 Patient ID:
 Name:
 Sample Comment:

Adapter:
 Ward:

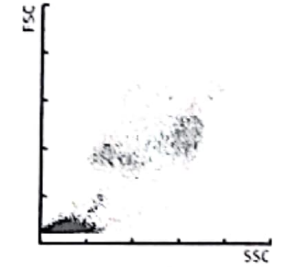
Pos.: 2023/01/28 18:33:58 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.60	[10 ³ /uL]		
RBC	4.36	[10 ⁶ /uL]		
HGB	11.8	[g/dL]		
HCT	34.7	[%]		
MCV	79.6	[fL]		
MCH	27.1	[pg]		
MCHC	34.0	[g/dL]		
PLT	244	[10 ³ /uL]		
RDW-SD	47.7	[fL]		
RDW-CV	16.4	[%]		
PDW	9.0	[fL]		
MPV	9.8	[fL]		
P-LCR	20.0	[%]		
PCT	0.24	[%]		
NEUT	3.12	[10 ³ /uL]	41.1	[%]
LYMPH	2.28	[10 ³ /uL]	30.0	[%]
MONO	0.85	[10 ³ /uL]	11.2	[%]
EO	0.87	[10 ³ /uL]	11.4	[%]
BASO	0.48	[10 ³ /uL]	6.3	[%]
IG	0.82	[10 ³ /uL]	10.8	[%]

WDF



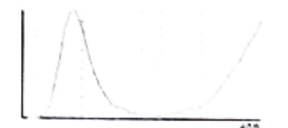
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



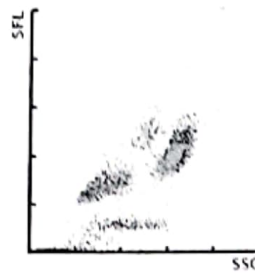
Sample No.: CAL-CAL-11
 Patient ID:
 Name:
 Sample Comment:

Adapter:
 Ward:

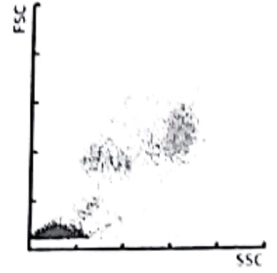
Pos.: 2023/01/28 18:39:16 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.32	[10 ³ /uL]		
RBC	4.43	[10 ⁶ /uL]		
HGB	12.0	[g/dL]		
HCT	35.1	[%]		
MCV	79.2	[fL]		
MCH	27.1	[pg]		
MCHC	34.2	[g/dL]		
PLT	242	[10 ³ /uL]		
RDW-SD	47.5	[fL]		
RDW-CV	16.3	[%]		
PDW	8.9	[fL]		
MPV	10.4	[fL]		
P-LCR	24.0	[%]		
PCT	0.25	[%]		
NEUT	3.20	[10 ³ /uL]	43.7	[%]
LYMPH	2.17	[10 ³ /uL]	29.6	[%]
MONO	0.81	[10 ³ /uL]	11.1	[%]
EO	0.71	[10 ³ /uL]	9.7	[%]
BASO	0.43	[10 ³ /uL]	5.9	[%]
IG	0.84	[10 ³ /uL]	11.5	[%]

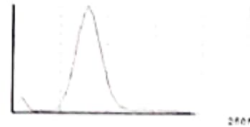
WDF



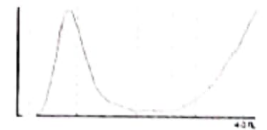
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



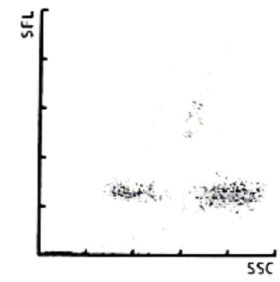
Sample No.: QC-23501401
 Patient ID:
 Name:
 Sample Comment:

Ward: Adapter:

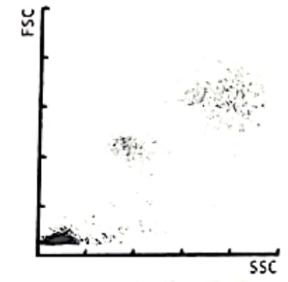
Pos.: 2023/01/28 19:40:30 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	2.36	[10 ³ /uL]		
RBC	2.32	[10 ⁶ /uL]		
HGB	5.8	[g/dL]		
HCT	16.9	[%]		
MCV	72.8	[fL]		
MCH	25.0	[pg]		
MCHC	34.3	[g/dL]		
PLT	57	[10 ³ /uL]		
RDW-SD	49.5	[fL]		
RDW-CV	18.5	[%]		
PDW	9.0	[fL]		
MPV	10.5	[fL]		
P-LCR	26.1	[%]		
PCT	0.06	[%]		
NEUT	1.07	[10 ³ /uL]	45.4	[%]
LYMPH	0.64	[10 ³ /uL]	27.1	[%]
MONO	0.24	[10 ³ /uL]	10.2	[%]
EO	0.27	[10 ³ /uL]	11.4	[%]
BASO	0.14	[10 ³ /uL]	5.9	[%]
IG	0.29	[10 ³ /uL]	12.3	[%]

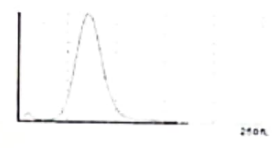
WDF



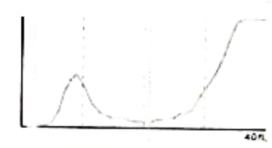
WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



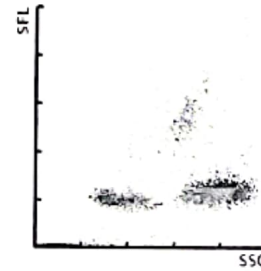
Sample No.: QC-23501402
 Patient ID:
 Name:
 Sample Comment:

Adapter:
 Ward:

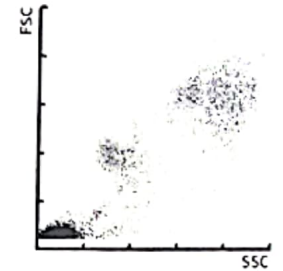
Pos.: 2023/01/28 19:42:49 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	7.19	[10 ³ /uL]		
RBC	4.31	[10 ⁶ /uL]		
HGB	12.7	[g/dL]		
HCT	35.9	[%]		
MCV	83.3	[fL]		
MCH	29.5	[pg]		
MCHC	35.4	[g/dL]		
PLT	266	[10 ³ /uL]		
RDW-SD	45.6	[fL]		
RDW-CV	14.9	[%]		
PDW	7.8	[fL]		
MPV	9.2	[fL]		
P-LCR	14.1	[%]		
PCT	0.25	[%]		
NEUT	3.58	[10 ³ /uL]	49.8	[%]
LYMPH	1.61	[10 ³ /uL]	22.4	[%]
MONO	0.61	[10 ³ /uL]	8.5	[%]
EO	0.92	[10 ³ /uL]	12.8	[%]
BASO	0.47	[10 ³ /uL]	6.5	[%]
IG	1.01	[10 ³ /uL]	14.0	[%]

WDF



WDF-CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message



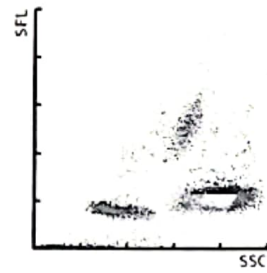
Sample No.: QC-23501403
 Patient ID:
 Name:
 Sample Comment:

Ward: Adapter:

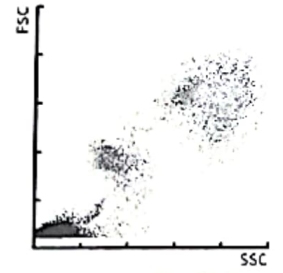
Pos.: 2023/01/28 19:44:39 WB
 Doctor:
 Birth: Sex:
 Nickname: XN-L

WBC	16.47	[10 ³ /uL]		
RBC	5.36	[10 ⁶ /uL]		
HGB	16.8	[g/dL]		
HCT	46.9	[%]		
MCV	87.5	[fL]		
MCH	31.3	[pg]		
MCHC	35.8	[g/dL]		
PLT	644	[10 ³ /uL]		
RDW-SD	47.0	[fL]		
RDW-CV	15.1	[%]		
PDW	8.1	[fL]		
MPV	8.9	[fL]		
P-LCR	12.2	[%]		
PCT	0.58	[%]		
NEUT	8.51	[10 ³ /uL]	51.7	[%]
LYMPH	3.11	[10 ³ /uL]	18.9	[%]
MONO	1.43	[10 ³ /uL]	8.7	[%]
EO	2.23	[10 ³ /uL]	13.5	[%]
BASO	1.19	[10 ³ /uL]	7.2	[%]
IG	2.24	[10 ³ /uL]	13.6	[%]

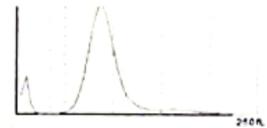
WDF



WDF - CBC



RBC



PLT



WBC IP Message

RBC IP Message

PLT IP Message

