



XN CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XN-SERIES (XN-10, XN-20) ANALYZERS

Expiration Date:	2020-02-02		Quality Control Data Due Date #1: 23-Dec-19		Quality Control Data Due Date #2: 02-Feb-20	
Lot Number:	93181101		93181102		93181103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.38	2.26 - 2.50	4.38	4.20 - 4.56	5.33	5.12 - 5.54
HGB (g/dL)	6.1	5.8 - 6.4	12.0	11.5 - 12.5	15.9	15.3 - 16.5
HCT (%)	18.2	16.9 - 19.5	35.2	33.1 - 37.3	45.7	43.0 - 48.4
MCV (fL)	76.5	71.9 - 81.1	80.4	75.6 - 85.2	85.7	80.6 - 90.8
MCH (pg)	25.6	23.6 - 27.6	27.4	25.5 - 29.3	29.8	28.0 - 31.6
MCHC (g/dL)	33.5	30.2 - 36.9	34.1	31.0 - 37.2	34.8	32.0 - 37.6
RDW-SD (fL)	50.5	47.5 - 53.5	48.5	45.6 - 51.4	48.0	44.2 - 51.8
RDW-CV (%)	18.6	17.5 - 19.7	17.0	16.0 - 18.0	15.8	14.5 - 17.1
PLT (10 ³ /μL)	86	53 - 119	247	220 - 274	560	510 - 610
PLT-F (10 ³ /μL)	78	57 - 99	252	184 - 320	526	405 - 647
IPF (%)	19.3	16.8 - 21.8	19.9	15.9 - 23.9	19.6	15.5 - 23.7
IPF#	15.0	13.1 - 17.0	47.8	38.2 - 57.4	100.5	79.4 - 121.6
MPV (fL)	8.2	6.9 - 9.5	9.9	9.2 - 10.6	9.7	9.2 - 10.2
WBC (10 ³ /μL)	2.91	2.62 - 3.20	6.66	6.19 - 7.13	15.81	14.86 - 16.76
NEUT# (10 ³ /μL)	1.13	0.93 - 1.33	2.87	2.47 - 3.27	7.74	6.73 - 8.75
LYMPH# (10 ³ /μL)	1.01	0.74 - 1.28	2.01	1.53 - 2.49	3.95	2.92 - 4.98
MONO# (10 ³ /μL)	0.43	0.19 - 0.67	0.88	0.44 - 1.32	2.03	1.12 - 2.94
EO# (10 ³ /μL)	0.27	0.17 - 0.37	0.71	0.45 - 0.97	1.74	1.08 - 2.40
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.33	0.28 - 0.38	0.80	0.70 - 0.90
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.73	0.59 - 0.87	1.94	1.59 - 2.29
NRBC# (10 ³ /μL)	0.15	0.09 - 0.21	0.39	0.28 - 0.50	1.06	0.85 - 1.27
NEUT%	37.8	32.5 - 43.1	42.2	37.6 - 46.8	47.6	42.8 - 52.4
LYMPH%	33.9	25.4 - 42.4	29.6	23.1 - 36.1	24.3	18.2 - 30.4
MONO%	14.4	6.6 - 22.2	13.0	6.8 - 19.2	12.5	7.0 - 18.0
EO%	9.1	5.7 - 12.5	10.5	6.7 - 14.3	10.7	6.7 - 14.7
BASO%	4.9	4.0 - 5.8	4.8	4.2 - 5.4	4.9	4.3 - 5.5
IG (%)	9.7	7.9 - 11.5	10.8	9.0 - 12.6	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.9	2.6 - 7.2	5.8	4.2 - 7.4	6.5	5.3 - 7.7
RET%	5.14	4.16 - 6.12	2.00	1.58 - 2.42	0.87	0.55 - 1.19
RET# (10 ⁶ /μL)	0.1223	0.0954 - 0.1492	0.0876	0.0710 - 0.1042	0.0464	0.0325 - 0.0603
IRF (%)	34.1	1.4 - 66.8	36.9	3.7 - 70.1	27.3	3.8 - 50.8
RET-He (pg)	26.3	22.6 - 30.0	27.0	23.5 - 30.5	28.6	24.3 - 32.9



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2020-02-02		Quality Control Data Due Date #1: 23-Dec-19		Quality Control Data Due Date #2: 02-Feb-20	
Lot Number:	93181101		93181102		93181103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.35	2.23 - 2.47	4.38	4.20 - 4.56	5.34	5.13 - 5.55
HGB (g/dL)	6.1	5.8 - 6.4	12.0	11.5 - 12.5	16.0	15.4 - 16.6
HCT (%)	17.9	16.6 - 19.2	34.8	32.7 - 36.9	45.3	42.6 - 48.0
MCV (fL)	76.2	71.6 - 80.8	79.5	74.7 - 84.3	84.8	79.7 - 89.9
MCH (pg)	26.0	23.9 - 28.1	27.4	25.5 - 29.3	30.0	28.2 - 31.8
MCHC (g/dL)	34.1	30.7 - 37.5	34.5	31.4 - 37.6	35.3	32.5 - 38.1
RDW-SD (fL)	50.2	47.2 - 53.2	47.3	44.5 - 50.1	46.3	42.6 - 50.0
RDW-CV (%)	18.6	17.5 - 19.7	16.6	15.6 - 17.6	15.2	14.0 - 16.4
PLT (10 ³ /μL)	86	53 - 119	254	226 - 282	577	525 - 629
MPV (fL)	8.0	6.7 - 9.3	9.7	9.0 - 10.4	9.5	9.0 - 10.0
WBC (10 ³ /μL)	3.16	2.84 - 3.48	7.31	6.80 - 7.82	17.50	16.45 - 18.55
NEUT# (10 ³ /μL)	1.11	0.91 - 1.31	2.89	2.49 - 3.29	7.54	6.56 - 8.52
LYMPH# (10 ³ /μL)	1.16	0.85 - 1.47	2.26	1.72 - 2.80	4.50	3.33 - 5.67
MONO# (10 ³ /μL)	0.34	0.15 - 0.53	0.74	0.37 - 1.11	1.80	0.99 - 2.61
EO# (10 ³ /μL)	0.27	0.17 - 0.37	0.71	0.45 - 0.97	1.80	1.12 - 2.48
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.40	0.34 - 0.46	1.03	0.90 - 1.16
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.75	0.61 - 0.89	1.96	1.61 - 2.31
NEUT%	36.6	31.5 - 41.7	41.3	36.8 - 45.8	45.3	40.8 - 49.8
LYMPH%	38.1	28.6 - 47.6	32.3	25.2 - 39.4	27.0	20.3 - 33.8
MONO%	11.3	5.2 - 17.4	10.6	5.5 - 15.7	10.8	6.0 - 15.6
EO%	8.9	5.6 - 12.2	10.1	6.5 - 13.7	10.8	6.8 - 14.8
BASO%	5.0	4.1 - 6.0	5.7	5.0 - 6.4	6.2	5.5 - 6.9
IG (%)	9.5	7.7 - 11.3	10.8	9.0 - 12.6	11.8	9.9 - 13.7
RET%	5.84	4.73 - 6.95	2.16	1.71 - 2.61	0.79	0.50 - 1.08
RET# (10 ⁶ /μL)	0.1372	0.1070 - 0.1674	0.0946	0.0766 - 0.1126	0.0422	0.0295 - 0.0549
IRF (%)	29.5	1.2 - 57.8	31.4	3.1 - 59.7	23.8	3.3 - 44.3
RET-He (pg)	23.4	20.1 - 26.7	23.9	20.8 - 27.0	25.2	21.4 - 29.0



XN CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XN-SERIES (XN-11, XN-21) ANALYZERS

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Lot Number:	93181101		93181102		93181103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.37	2.25 - 2.49	4.38	4.20 - 4.56	5.35	5.14 - 5.56
HGB (g/dL)	6.02	5.72 - 6.32	11.99	11.51 - 12.47	16.04	15.40 - 16.68
HCT (%)	17.4	16.2 - 18.6	33.6	31.6 - 35.6	44.0	41.4 - 46.6
MCV (fL)	73.4	69.0 - 77.8	76.7	72.1 - 81.3	82.2	77.3 - 87.1
MCH (pg)	25.4	23.4 - 27.4	27.4	25.5 - 29.3	30.0	28.2 - 31.8
MCHC (g/dL)	34.6	31.1 - 38.1	35.7	32.5 - 38.9	36.5	33.6 - 39.4
RDW-SD (fL)	48.7	45.8 - 51.6	46.1	43.3 - 48.9	46.4	42.7 - 50.1
RDW-CV (%)	18.7	17.6 - 19.8	17.0	16.0 - 18.0	16.1	14.8 - 17.4
PLT (10 ³ /μL)	90	56 - 124	252	224 - 280	573	521 - 625
PLT-F (10 ³ /μL)	79	58 - 100	251	183 - 319	533	410 - 656
IPF (%)	19.3	16.8 - 21.8	19.8	15.8 - 23.8	20.2	16.0 - 24.4
IPF#	15.3	13.3 - 17.3	47.4	37.9 - 56.9	104.8	82.8 - 126.8
MPV (fL)	9.0	7.6 - 10.4	10.9	10.1 - 11.7	10.8	10.3 - 11.3
WBC (10 ³ /μL)	2.92	2.63 - 3.21	6.62	6.16 - 7.08	15.83	14.88 - 16.78
NEUT# (10 ³ /μL)	1.13	0.93 - 1.33	2.96	2.55 - 3.37	7.64	6.65 - 8.63
LYMPH# (10 ³ /μL)	1.03	0.75 - 1.31	2.01	1.53 - 2.49	3.94	2.92 - 4.96
MONO# (10 ³ /μL)	0.42	0.18 - 0.66	0.90	0.45 - 1.35	2.08	1.14 - 3.02
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.68	0.43 - 0.93	1.90	1.18 - 2.62
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.38	0.80	0.70 - 0.90
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.75	0.61 - 0.89	1.91	1.57 - 2.25
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.41	0.30 - 0.52	1.06	0.85 - 1.27
NEUT%	37.7	32.4 - 43.0	43.0	38.3 - 47.7	46.7	42.0 - 51.4
LYMPH%	34.2	25.7 - 42.8	29.2	22.8 - 35.6	24.1	18.1 - 30.1
MONO%	14.1	6.5 - 21.7	13.1	6.8 - 19.4	12.7	7.1 - 18.3
EO%	9.3	5.9 - 12.7	9.9	6.3 - 13.5	11.6	7.3 - 15.9
BASO%	4.7	3.8 - 5.6	4.8	4.2 - 5.4	4.9	4.3 - 5.5
IG (%)	9.7	7.9 - 11.5	10.9	9.0 - 12.8	11.7	9.8 - 13.6
NRBC% (/100 WBC)	4.8	2.6 - 7.0	5.9	4.2 - 7.6	6.5	5.3 - 7.7
RET%	4.55	3.69 - 5.41	1.80	1.42 - 2.18	0.81	0.51 - 1.11
RET# (10 ⁶ /μL)	0.1078	0.0841 - 0.1315	0.0788	0.0638 - 0.0938	0.0433	0.0303 - 0.0563
IRF (%)	41.5	1.7 - 81.3	42.2	4.2 - 80.2	28.0	3.9 - 52.1
RET-He (pg)	25.4	21.8 - 29.0	26.3	22.9 - 29.7	28.4	24.1 - 32.7