



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:	93191101		93191102		93191103	
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	4.39	4.21 - 4.57	5.30	5.09 - 5.51
HGB (g/dL)	5.9	5.6 - 6.2	12.1	11.6 - 12.6	15.7	15.1 - 16.3
HCT (%)	17.6	16.4 - 18.8	35.4	33.3 - 37.5	45.1	42.4 - 47.8
MCV (fL)	74.9	70.4 - 79.4	80.6	75.8 - 85.4	85.1	80.0 - 90.2
MCH (pg)	25.1	23.1 - 27.1	27.6	25.7 - 29.5	29.6	27.8 - 31.4
MCHC (g/dL)	33.5	30.2 - 36.9	34.2	31.1 - 37.3	34.8	32.0 - 37.6
RDW-SD (fL)	51.5	48.4 - 54.6	47.4	44.6 - 50.2	46.9	43.1 - 50.7
RDW-CV (%)	19.2	18.0 - 20.4	16.5	15.5 - 17.5	15.4	14.2 - 16.6
PLT (10 ³ /μL)	89	55 - 123	246	219 - 273	559	509 - 609
PLT-F (10 ³ /μL)	79	58 - 100	249	182 - 316	525	404 - 646
IPF (%)	19.5	17.0 - 22.0	20.1	16.1 - 24.1	20.3	16.0 - 24.6
IPF#	15.3	13.3 - 17.3	47.7	38.2 - 57.2	104.2	82.3 - 126.1
MPV (fL)	8.3	7.0 - 9.6	10.0	9.3 - 10.7	9.8	9.3 - 10.3
WBC (10 ³ /μL)	2.92	2.63 - 3.21	6.63	6.17 - 7.09	15.98	15.02 - 16.94
NEUT# (10 ³ /μL)	1.17	0.96 - 1.38	2.96	2.55 - 3.37	7.60	6.61 - 8.59
LYMPH# (10 ³ /μL)	0.99	0.72 - 1.26	2.03	1.54 - 2.52	4.17	3.09 - 5.25
MONO# (10 ³ /μL)	0.40	0.18 - 0.62	0.79	0.40 - 1.19	1.95	1.07 - 2.83
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.71	0.45 - 0.97	1.85	1.15 - 2.55
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)	0.30	0.24 - 0.36	0.76	0.62 - 0.90	1.93	1.58 - 2.28
NRBC# (10 ³ /μL)	0.13	0.07 - 0.19	0.43	0.31 - 0.55	1.06	0.85 - 1.27
NEUT%	39.1	33.6 - 44.6	43.4	38.6 - 48.2	46.5	41.9 - 51.2
LYMPH%	33.1	24.8 - 41.4	29.8	23.2 - 36.4	25.5	19.1 - 31.9
MONO%	13.4	6.2 - 20.6	11.6	6.0 - 17.2	11.9	6.7 - 17.1
EO%	9.5	6.0 - 13.0	10.4	6.7 - 14.1	11.3	7.1 - 15.5
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.9	4.3 - 5.5
IG (%)	10.0	8.1 - 11.9	11.1	9.2 - 13.0	11.8	9.9 - 13.7
NRBC% (/100 WBC)	4.2	2.3 - 6.1	6.3	4.5 - 8.1	6.5	5.3 - 7.7
RET%	5.31	4.30 - 6.32	2.16	1.71 - 2.61	0.79	0.50 - 1.08
RET# (10 ⁶ /μL)	0.1248	0.0973 - 0.1523	0.0948	0.0768 - 0.1128	0.0419	0.0293 - 0.0545
IRF (%)	41.1	1.6 - 80.6	42.8	4.3 - 81.3	27.3	3.8 - 50.8
RET-He (pg)	25.9	22.3 - 29.5	26.9	23.4 - 30.4	28.4	24.1 - 32.7



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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:	93191101		93191102		93191103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.32	2.20 - 2.44	4.40	4.22 - 4.58	5.32	5.11 - 5.53
HGB (g/dL)	5.9	5.6 - 6.2	12.2	11.7 - 12.7	15.8	15.2 - 16.4
HCT (%)	17.3	16.1 - 18.5	35.4	33.3 - 37.5	44.9	42.2 - 47.6
MCV (fL)	74.6	70.1 - 79.1	80.5	75.7 - 85.3	84.4	79.3 - 89.5
MCH (pg)	25.4	23.4 - 27.4	27.7	25.8 - 29.6	29.7	27.9 - 31.5
MCHC (g/dL)	34.1	30.7 - 37.5	34.5	31.4 - 37.6	35.2	32.4 - 38.0
RDW-SD (fL)	51.2	48.1 - 54.3	46.2	43.4 - 49.0	45.1	41.5 - 48.7
RDW-CV (%)	19.3	18.1 - 20.5	16.1	15.1 - 17.1	14.9	13.7 - 16.1
PLT (10 ³ /μL)	91	56 - 126	253	225 - 281	577	525 - 629
MPV (fL)	8.1	6.8 - 9.4	9.7	9.0 - 10.4	9.6	9.1 - 10.1
WBC (10 ³ /μL)	3.13	2.82 - 3.44	7.33	6.82 - 7.84	17.65	16.59 - 18.71
NEUT# (10 ³ /μL)	1.15	0.94 - 1.36	2.90	2.49 - 3.31	7.57	6.59 - 8.55
LYMPH# (10 ³ /μL)	1.12	0.82 - 1.42	2.27	1.73 - 2.81	4.66	3.45 - 5.87
MONO# (10 ³ /μL)	0.34	0.15 - 0.53	0.70	0.35 - 1.05	1.71	0.94 - 2.48
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.72	0.45 - 0.99	1.81	1.12 - 2.50
BASO# (10 ³ /μL)	0.16	0.12 - 0.20	0.39	0.33 - 0.45	1.02	0.89 - 1.15
IG # (10 ³ /μL)	0.30	0.24 - 0.36	0.75	0.61 - 0.89	1.96	1.61 - 2.31
NEUT%	37.7	32.4 - 43.0	41.6	37.0 - 46.2	45.1	40.6 - 49.6
LYMPH%	36.7	27.5 - 45.9	32.5	25.4 - 39.7	27.8	20.9 - 34.8
MONO%	11.1	5.1 - 17.1	10.0	5.2 - 14.8	10.2	5.7 - 14.7
EO%	9.4	5.9 - 12.9	10.3	6.6 - 14.0	10.8	6.8 - 14.8
BASO%	5.1	4.1 - 6.1	5.6	4.9 - 6.3	6.1	5.4 - 6.8
IG (%)	9.8	7.9 - 11.7	10.8	9.0 - 12.6	11.7	9.8 - 13.6
RET%	6.01	4.87 - 7.15	2.30	1.82 - 2.78	0.70	0.44 - 0.96
RET# (10 ⁶ /μL)	0.1394	0.1087 - 0.1701	0.1012	0.0820 - 0.1204	0.0372	0.0260 - 0.0484
IRF (%)	33.8	1.4 - 66.2	35.5	3.6 - 67.5	25.2	3.5 - 46.9
RET-He (pg)	22.8	19.6 - 26.0	23.4	20.4 - 26.4	24.8	21.1 - 28.5



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HEMATOLOGY CONTROL FOR SYSMEX XN-SERIES (XN-11, XN-21) 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:	93191101		93191102		93191103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.33	2.21 - 2.45	4.39	4.21 - 4.57	5.30	5.09 - 5.51
HGB (g/dL)	5.84	5.55 - 6.13	12.18	11.69 - 12.67	15.84	15.21 - 16.47
HCT (%)	16.8	15.6 - 18.0	34.0	32.0 - 36.0	43.3	40.7 - 45.9
MCV (fL)	72.1	67.8 - 76.4	77.4	72.8 - 82.0	81.7	76.8 - 86.6
MCH (pg)	25.1	23.1 - 27.1	27.7	25.8 - 29.6	29.9	28.1 - 31.7
MCHC (g/dL)	34.8	31.3 - 38.3	35.8	32.6 - 39.0	36.6	33.7 - 39.5
RDW-SD (fL)	48.5	45.6 - 51.4	44.7	42.0 - 47.4	44.6	41.0 - 48.2
RDW-CV (%)	18.9	17.8 - 20.0	16.5	15.5 - 17.5	15.6	14.4 - 16.8
PLT (10 ³ /μL)	92	57 - 127	250	223 - 278	571	520 - 622
PLT-F (10 ³ /μL)	81	59 - 103	248	181 - 315	530	408 - 652
IPF (%)	19.3	16.8 - 21.8	20.1	16.1 - 24.1	20.1	15.9 - 24.3
IPF#	15.6	13.6 - 17.6	47.4	37.9 - 56.9	104.2	82.3 - 126.1
MPV (fL)	9.0	7.6 - 10.4	11.0	10.2 - 11.8	10.8	10.3 - 11.3
WBC (10 ³ /μL)	2.91	2.62 - 3.20	6.65	6.18 - 7.12	15.94	14.98 - 16.90
NEUT# (10 ³ /μL)	1.17	0.96 - 1.38	2.96	2.55 - 3.37	7.71	6.71 - 8.71
LYMPH# (10 ³ /μL)	1.00	0.73 - 1.27	2.05	1.56 - 2.54	4.17	3.09 - 5.25
MONO# (10 ³ /μL)	0.39	0.17 - 0.61	0.81	0.41 - 1.22	1.99	1.09 - 2.89
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.71	0.45 - 0.97	1.80	1.12 - 2.48
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.38	0.81	0.70 - 0.92
IG # (10 ³ /μL)	0.30	0.24 - 0.36	0.75	0.61 - 0.89	1.94	1.59 - 2.29
NRBC# (10 ³ /μL)	0.13	0.07 - 0.19	0.44	0.32 - 0.56	1.07	0.86 - 1.28
NEUT%	39.2	33.7 - 44.7	43.1	38.4 - 47.8	46.8	42.1 - 51.5
LYMPH%	33.6	25.2 - 42.0	29.8	23.2 - 36.4	25.3	19.0 - 31.6
MONO%	13.1	6.0 - 20.2	11.8	6.1 - 17.5	12.1	6.8 - 17.4
EO%	9.4	5.9 - 12.9	10.4	6.7 - 14.1	10.9	6.9 - 14.9
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.9	4.3 - 5.5
IG (%)	10.0	8.1 - 11.9	10.9	9.0 - 12.8	11.8	9.9 - 13.7
NRBC% (/100 WBC)	4.4	2.4 - 6.4	6.4	4.6 - 8.2	6.5	5.3 - 7.7
RET%	4.65	3.77 - 5.53	1.89	1.49 - 2.29	0.73	0.46 - 1.00
RET# (10 ⁶ /μL)	0.1083	0.0845 - 0.1321	0.0830	0.0672 - 0.0988	0.0387	0.0271 - 0.0503
IRF (%)	45.9	1.8 - 90.0	45.2	4.5 - 85.9	26.6	3.7 - 49.5
RET-He (pg)	24.8	21.3 - 28.3	26.0	22.6 - 29.4	28.1	23.9 - 32.3