



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:	93161101		93161102		93161103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.34	2.22 - 2.46	4.38	4.20 - 4.56	5.27	5.06 - 5.48
HGB (g/dL)	5.8	5.5 - 6.1	11.9	11.4 - 12.4	15.9	15.3 - 16.5
HCT (%)	17.7	16.5 - 18.9	35.2	33.1 - 37.3	45.8	43.1 - 48.5
MCV (fL)	75.6	71.1 - 80.1	80.4	75.6 - 85.2	86.9	81.7 - 92.1
MCH (pg)	24.8	22.8 - 26.8	27.2	25.3 - 29.1	30.2	28.4 - 32.0
MCHC (g/dL)	32.8	29.5 - 36.1	33.8	30.8 - 36.8	34.7	31.9 - 37.5
RDW-SD (fL)	48.4	45.5 - 51.3	47.3	44.5 - 50.1	47.8	44.0 - 51.6
RDW-CV (%)	18.1	17.0 - 19.2	16.6	15.6 - 17.6	15.5	14.3 - 16.7
PLT (10 ³ /μL)	83	51 - 115	251	223 - 279	547	498 - 596
PLT-F (10 ³ /μL)	76	55 - 97	259	189 - 329	517	398 - 636
IPF (%)	19.3	16.8 - 21.8	20.0	16.0 - 24.0	19.5	15.4 - 23.6
IPF#	14.7	12.8 - 16.6	49.4	39.5 - 59.3	98.4	77.7 - 119.1
MPV (fL)	8.4	7.1 - 9.7	9.9	9.2 - 10.6	9.7	9.2 - 10.2
WBC (10 ³ /μL)	2.94	2.65 - 3.23	6.81	6.33 - 7.29	15.76	14.81 - 16.71
NEUT# (10 ³ /μL)	1.15	0.94 - 1.36	2.99	2.57 - 3.41	7.65	6.66 - 8.64
LYMPH# (10 ³ /μL)	1.04	0.76 - 1.32	2.14	1.63 - 2.65	4.09	3.03 - 5.15
MONO# (10 ³ /μL)	0.39	0.17 - 0.61	0.82	0.41 - 1.23	1.91	1.05 - 2.77
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.75	0.47 - 1.03	1.73	1.07 - 2.39
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.34	0.29 - 0.39	0.78	0.68 - 0.88
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)	0.14	0.08 - 0.20	0.44	0.32 - 0.56	1.07	0.86 - 1.28
NEUT%	38.2	32.9 - 43.5	42.5	37.8 - 47.2	47.3	42.6 - 52.0
LYMPH%	34.7	26.0 - 43.4	30.4	23.7 - 37.1	25.3	19.0 - 31.6
MONO%	13.0	6.0 - 20.0	11.6	6.0 - 17.2	11.8	6.6 - 17.0
EO%	9.3	5.9 - 12.7	10.6	6.8 - 14.4	10.7	6.7 - 14.7
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	9.9	8.0 - 11.8	10.8	9.0 - 12.6	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.8	2.6 - 7.0	6.2	4.5 - 7.9	6.6	5.3 - 7.9
RET%	5.30	4.29 - 6.31	2.07	1.64 - 2.50	0.83	0.52 - 1.14
RET# (10 ⁶ /μL)	0.1240	0.0967 - 0.1513	0.0907	0.0735 - 0.1079	0.0437	0.0306 - 0.0568
IRF (%)	46.4	1.9 - 90.9	48.0	4.8 - 91.2	32.2	4.5 - 59.9
RET-He (pg)	24.3	20.9 - 27.7	25.4	22.1 - 28.7	27.8	23.6 - 32.0



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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:	93161101		93161102		93161103	
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	4.39	4.21 - 4.57	5.29	5.08 - 5.50
HGB (g/dL)	5.9	5.6 - 6.2	12.0	11.5 - 12.5	15.9	15.3 - 16.5
HCT (%)	17.4	16.2 - 18.6	34.9	32.8 - 37.0	45.4	42.7 - 48.1
MCV (fL)	75.0	70.5 - 79.5	79.5	74.7 - 84.3	85.8	80.7 - 90.9
MCH (pg)	25.4	23.4 - 27.4	27.3	25.4 - 29.2	30.1	28.3 - 31.9
MCHC (g/dL)	33.9	30.5 - 37.3	34.4	31.3 - 37.5	35.0	32.2 - 37.8
RDW-SD (fL)	48.0	45.1 - 50.9	45.9	43.1 - 48.7	46.1	42.4 - 49.8
RDW-CV (%)	18.0	16.9 - 19.1	16.2	15.2 - 17.2	15.0	13.8 - 16.2
PLT (10 ³ /μL)	87	54 - 120	257	229 - 285	560	510 - 610
MPV (fL)	8.3	7.0 - 9.6	9.7	9.0 - 10.4	9.5	9.0 - 10.0
WBC (10 ³ /μL)	3.18	2.86 - 3.50	7.51	6.98 - 8.04	17.44	16.39 - 18.49
NEUT# (10 ³ /μL)	1.14	0.93 - 1.35	2.96	2.55 - 3.37	7.52	6.54 - 8.50
LYMPH# (10 ³ /μL)	1.16	0.85 - 1.47	2.33	1.77 - 2.89	4.59	3.40 - 5.78
MONO# (10 ³ /μL)	0.33	0.15 - 0.51	0.73	0.37 - 1.10	1.71	0.94 - 2.48
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.74	0.47 - 1.01	1.74	1.08 - 2.40
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.39	0.33 - 0.45	1.01	0.88 - 1.14
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.77	0.62 - 0.92	1.96	1.61 - 2.31
NEUT%	37.2	32.0 - 42.4	41.4	36.8 - 46.0	45.4	40.9 - 49.9
LYMPH%	37.9	28.4 - 47.4	32.5	25.4 - 39.7	27.7	20.8 - 34.6
MONO%	10.9	5.0 - 16.8	10.2	5.3 - 15.1	10.3	5.8 - 14.8
EO%	9.1	5.7 - 12.5	10.4	6.7 - 14.1	10.5	6.6 - 14.4
BASO%	5.0	4.1 - 6.0	5.5	4.8 - 6.2	6.1	5.4 - 6.8
IG (%)	9.6	7.8 - 11.4	10.7	8.9 - 12.5	11.8	9.9 - 13.7
RET%	5.98	4.84 - 7.12	2.24	1.77 - 2.71	0.73	0.46 - 1.00
RET# (10 ⁶ /μL)	0.1387	0.1082 - 0.1692	0.0983	0.0796 - 0.1170	0.0386	0.0270 - 0.0502
IRF (%)	42.5	1.7 - 83.3	44.4	4.4 - 84.4	34.2	4.8 - 63.6
RET-He (pg)	21.3	18.3 - 24.3	22.1	19.2 - 25.0	24.0	20.4 - 27.6



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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:	93161101		93161102		93161103	
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	4.38	4.20 - 4.56	5.29	5.08 - 5.50
HGB (g/dL)	5.81	5.52 - 6.10	11.95	11.47 - 12.43	15.95	15.31 - 16.59
HCT (%)	17.0	15.8 - 18.2	33.6	31.6 - 35.6	43.6	41.0 - 46.2
MCV (fL)	73.0	68.6 - 77.4	76.7	72.1 - 81.3	82.4	77.5 - 87.3
MCH (pg)	24.9	22.9 - 26.9	27.3	25.4 - 29.2	30.2	28.4 - 32.0
MCHC (g/dL)	34.2	30.8 - 37.6	35.6	32.4 - 38.8	36.6	33.7 - 39.5
RDW-SD (fL)	46.0	43.2 - 48.8	44.2	41.5 - 46.9	45.5	41.9 - 49.1
RDW-CV (%)	18.1	17.0 - 19.2	16.6	15.6 - 17.6	15.8	14.5 - 17.1
PLT (10 ³ /μL)	88	55 - 121	254	226 - 282	558	508 - 608
PLT-F (10 ³ /μL)	78	57 - 99	257	188 - 326	520	400 - 640
IPF (%)	19.4	16.9 - 21.9	19.9	15.9 - 23.9	20.2	16.0 - 24.4
IPF#	15.0	13.1 - 17.0	48.6	38.9 - 58.3	102.3	80.8 - 123.8
MPV (fL)	9.3	7.8 - 10.8	10.9	10.1 - 11.7	10.7	10.2 - 11.2
WBC (10 ³ /μL)	2.92	2.63 - 3.21	6.76	6.29 - 7.23	15.73	14.79 - 16.67
NEUT# (10 ³ /μL)	1.16	0.95 - 1.37	3.04	2.61 - 3.47	7.52	6.54 - 8.50
LYMPH# (10 ³ /μL)	1.03	0.75 - 1.31	2.12	1.61 - 2.63	4.03	2.98 - 5.08
MONO# (10 ³ /μL)	0.40	0.18 - 0.62	0.83	0.42 - 1.25	2.01	1.11 - 2.91
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.70	0.44 - 0.96	1.86	1.15 - 2.57
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.34	0.29 - 0.39	0.78	0.68 - 0.88
IG # (10 ³ /μL)	0.30	0.24 - 0.36	0.77	0.62 - 0.92	1.90	1.56 - 2.24
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.44	0.32 - 0.56	1.07	0.86 - 1.28
NEUT%	38.5	33.1 - 43.9	43.2	38.4 - 48.0	46.4	41.8 - 51.0
LYMPH%	34.1	25.6 - 42.6	30.2	23.6 - 36.8	24.9	18.7 - 31.1
MONO%	13.4	6.2 - 20.6	11.8	6.1 - 17.5	12.4	6.9 - 17.9
EO%	9.4	5.9 - 12.9	10.0	6.4 - 13.6	11.5	7.2 - 15.8
BASO%	4.7	3.8 - 5.6	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	10.0	8.1 - 11.9	10.9	9.0 - 12.8	11.7	9.8 - 13.6
NRBC% (/100 WBC)	4.8	2.6 - 7.0	6.2	4.5 - 7.9	6.6	5.3 - 7.9
RET%	4.49	3.64 - 5.34	1.79	1.41 - 2.17	0.75	0.47 - 1.03
RET# (10 ⁶ /μL)	0.1046	0.0816 - 0.1276	0.0784	0.0635 - 0.0933	0.0397	0.0278 - 0.0516
IRF (%)	51.4	2.1 - 100.7	49.6	5.0 - 94.2	31.6	4.4 - 58.8
RET-He (pg)	23.2	20.0 - 26.4	24.5	21.3 - 27.7	27.5	23.4 - 31.6