



XN CHECK™

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

Expiration Date:	2020-09-13		Quality Control Data Due Date #1: 03-Aug-20		Quality Control Data Due Date #2: 13-Sep-20	
Lot Number:	01741101		01741102		01741103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.28	2.17 - 2.40	4.36	4.18 - 4.53	5.26	5.05 - 5.47
HGB (g/dL)	5.7	5.4 - 6.0	11.8	11.3 - 12.3	16.2	15.5 - 16.8
HCT (%)	16.8	15.7 - 18.0	34.4	32.4 - 36.5	46.3	43.5 - 49.1
MCV (fL)	73.7	69.3 - 78.1	79.0	74.3 - 83.8	88.1	82.8 - 93.3
MCH (pg)	24.8	22.8 - 26.8	27.0	25.2 - 28.9	30.8	28.9 - 32.6
MCHC (g/dL)	33.7	30.3 - 37.0	34.2	31.1 - 37.3	34.9	32.1 - 37.7
RDW-SD (fL)	48.8	45.8 - 51.7	48.2	45.3 - 51.1	48.0	44.1 - 51.8
RDW-CV (%)	18.6	17.5 - 19.8	17.1	16.1 - 18.1	15.2	14.0 - 16.4
PLT (10 ³ /μL)	96	60 - 133	255	227 - 284	518	471 - 565
PLT-F (10 ³ /μL)	86	63 - 109	261	190 - 331	499	384 - 614
IPF (%)	19.0	16.5 - 21.4	19.5	15.6 - 23.4	19.8	15.7 - 24.0
IPF#	16.3	14.2 - 18.4	48.4	38.7 - 58.1	96.6	76.3 - 116.9
MPV (fL)	9.0	7.6 - 10.5	9.7	9.1 - 10.4	9.6	9.1 - 10.1
WBC (10 ³ /μL)	2.83	2.54 - 3.11	6.65	6.19 - 7.12	15.53	14.59 - 16.46
NEUT# (10 ³ /μL)	1.11	0.91 - 1.31	2.90	2.49 - 3.30	7.20	6.27 - 8.14
LYMPH# (10 ³ /μL)	0.96	0.70 - 1.22	1.92	1.46 - 2.38	4.05	3.00 - 5.11
MONO# (10 ³ /μL)	0.41	0.18 - 0.63	0.96	0.48 - 1.45	2.18	1.20 - 3.16
EO# (10 ³ /μL)	0.27	0.16 - 0.37	0.69	0.43 - 0.94	1.65	1.02 - 2.28
BASO# (10 ³ /μL)	0.14	0.10 - 0.17	0.33	0.27 - 0.38	0.76	0.67 - 0.86
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.74	0.60 - 0.88	1.82	1.49 - 2.15
NRBC# (10 ³ /μL)	0.17	0.10 - 0.24	0.43	0.31 - 0.55	1.07	0.85 - 1.28
NEUT%	38.5	33.1 - 43.9	42.7	38.0 - 47.4	45.4	40.9 - 50.0
LYMPH%	33.4	25.1 - 41.8	28.2	22.0 - 34.4	25.6	19.2 - 32.0
MONO%	14.1	6.5 - 21.7	14.2	7.4 - 21.0	13.8	7.7 - 19.8
EO%	9.2	5.8 - 12.6	10.1	6.5 - 13.7	10.4	6.6 - 14.3
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	10.9	9.0 - 12.7	11.5	9.6 - 13.3
NRBC% (/100 WBC)	5.9	3.2 - 8.7	6.5	4.7 - 8.3	6.9	5.6 - 8.2
RET%	5.28	4.28 - 6.28	2.42	1.91 - 2.93	1.08	0.68 - 1.48
RET# (10 ⁶ /μL)	0.1206	0.0941 - 0.1472	0.1054	0.0854 - 0.1254	0.0567	0.0397 - 0.0738
IRF (%)	33.0	1.3 - 64.7	39.3	3.9 - 74.7	30.5	4.3 - 56.7
RET-He (pg)	26.1	22.5 - 29.8	27.0	23.5 - 30.5	28.7	24.4 - 33.1



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2020-09-13		Quality Control Data Due Date #1: 03-Aug-20		Quality Control Data Due Date #2: 13-Sep-20	
Lot Number:	01741101		01741102		01741103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.31	2.19 - 2.42	4.40	4.22 - 4.58	5.32	5.11 - 5.53
HGB (g/dL)	5.7	5.4 - 6.0	11.9	11.5 - 12.4	16.3	15.6 - 16.9
HCT (%)	17.0	15.8 - 18.2	34.6	32.5 - 36.7	46.5	43.8 - 49.3
MCV (fL)	73.6	69.2 - 78.1	78.6	73.9 - 83.3	87.5	82.2 - 92.7
MCH (pg)	24.8	22.8 - 26.8	27.1	25.2 - 29.0	30.6	28.8 - 32.4
MCHC (g/dL)	33.7	30.3 - 37.0	34.5	31.4 - 37.6	35.0	32.2 - 37.8
RDW-SD (fL)	49.0	46.0 - 51.9	47.5	44.7 - 50.4	46.9	43.2 - 50.7
RDW-CV (%)	18.7	17.6 - 19.8	16.9	15.9 - 17.9	14.9	13.7 - 16.1
PLT (10 ³ /μL)	99	61 - 137	258	230 - 287	524	476 - 571
MPV (fL)	8.9	7.5 - 10.3	9.6	8.9 - 10.2	9.4	8.9 - 9.9
WBC (10 ³ /μL)	3.11	2.80 - 3.43	7.43	6.91 - 7.95	17.25	16.22 - 18.29
NEUT# (10 ³ /μL)	1.11	0.91 - 1.31	2.90	2.50 - 3.31	7.10	6.18 - 8.03
LYMPH# (10 ³ /μL)	1.11	0.81 - 1.41	2.31	1.75 - 2.86	4.77	3.53 - 6.02
MONO# (10 ³ /μL)	0.32	0.14 - 0.50	0.74	0.37 - 1.12	1.76	0.97 - 2.55
EO# (10 ³ /μL)	0.27	0.17 - 0.38	0.71	0.45 - 0.97	1.76	1.09 - 2.43
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.39	0.33 - 0.46	0.95	0.82 - 1.07
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.75	0.61 - 0.90	1.85	1.51 - 2.18
NEUT%	37.5	32.3 - 42.8	41.1	36.6 - 45.7	43.4	39.1 - 47.8
LYMPH%	37.5	28.1 - 46.9	32.7	25.5 - 39.9	29.2	21.9 - 36.5
MONO%	10.7	4.9 - 16.5	10.5	5.5 - 15.6	10.8	6.0 - 15.5
EO%	9.2	5.8 - 12.6	10.0	6.4 - 13.6	10.8	6.8 - 14.8
BASO%	5.0	4.1 - 6.0	5.6	4.9 - 6.3	5.8	5.1 - 6.5
IG (%)	9.8	7.9 - 11.6	10.7	8.9 - 12.5	11.3	9.5 - 13.1
RET%	6.12	4.95 - 7.28	2.65	2.10 - 3.21	1.06	0.67 - 1.45
RET# (10 ⁶ /μL)	0.1410	0.1100 - 0.1720	0.1168	0.0946 - 0.1390	0.0565	0.0395 - 0.0734
IRF (%)	24.4	1.0 - 47.9	29.3	2.9 - 55.6	25.4	3.6 - 47.2
RET-He (pg)	23.3	20.1 - 26.6	24.0	20.8 - 27.1	25.2	21.5 - 29.0



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

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Lot Number:	01741101		01741102		01741103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.34	2.22 - 2.45	4.42	4.24 - 4.59	5.35	5.13 - 5.56
HGB (g/dL)	5.70	5.41 - 5.98	11.91	11.43 - 12.39	16.39	15.74 - 17.05
HCT (%)	16.7	15.5 - 17.9	33.6	31.6 - 35.7	45.3	42.6 - 48.0
MCV (fL)	71.5	67.2 - 75.8	76.1	71.6 - 80.7	84.7	79.6 - 89.8
MCH (pg)	24.4	22.4 - 26.3	27.0	25.1 - 28.8	30.7	28.8 - 32.5
MCHC (g/dL)	34.1	30.7 - 37.5	35.4	32.2 - 38.6	36.2	33.3 - 39.1
RDW-SD (fL)	47.5	44.6 - 50.3	46.0	43.3 - 48.8	47.0	43.2 - 50.7
RDW-CV (%)	18.7	17.6 - 19.8	17.1	16.1 - 18.1	15.7	14.4 - 16.9
PLT (10 ³ /μL)	99	61 - 136	257	228 - 285	521	474 - 568
PLT-F (10 ³ /μL)	86	63 - 109	259	189 - 329	498	383 - 612
IPF (%)	18.9	16.5 - 21.4	19.7	15.8 - 23.6	19.9	15.7 - 24.1
IPF#	16.3	14.2 - 18.4	48.6	38.9 - 58.3	96.6	76.3 - 116.9
MPV (fL)	10.1	8.5 - 11.7	10.8	10.1 - 11.6	10.7	10.1 - 11.2
WBC (10 ³ /μL)	2.85	2.57 - 3.14	6.65	6.19 - 7.12	15.51	14.58 - 16.44
NEUT# (10 ³ /μL)	1.15	0.94 - 1.35	2.90	2.49 - 3.31	7.22	6.29 - 8.16
LYMPH# (10 ³ /μL)	1.01	0.74 - 1.28	1.98	1.50 - 2.45	4.09	3.03 - 5.16
MONO# (10 ³ /μL)	0.38	0.17 - 0.60	0.93	0.46 - 1.39	2.20	1.21 - 3.19
EO# (10 ³ /μL)	0.27	0.17 - 0.37	0.70	0.44 - 0.96	1.67	1.03 - 2.30
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.38	0.76	0.66 - 0.86
IG # (10 ³ /μL)	0.29	0.23 - 0.36	0.73	0.59 - 0.87	1.82	1.50 - 2.15
NRBC# (10 ³ /μL)	0.16	0.09 - 0.23	0.43	0.31 - 0.54	1.07	0.86 - 1.29
NEUT%	38.9	33.5 - 44.4	42.4	37.8 - 47.1	45.3	40.8 - 49.9
LYMPH%	34.2	25.7 - 42.8	28.9	22.6 - 35.3	25.7	19.3 - 32.1
MONO%	13.0	6.0 - 20.0	13.6	7.1 - 20.1	13.8	7.7 - 19.9
EO%	9.2	5.8 - 12.5	10.2	6.5 - 13.9	10.5	6.6 - 14.3
BASO%	4.8	3.8 - 5.7	4.8	4.2 - 5.5	4.8	4.2 - 5.3
IG (%)	10.0	8.1 - 11.9	10.7	8.9 - 12.6	11.4	9.6 - 13.3
NRBC% (/100 WBC)	5.7	3.1 - 8.4	6.4	4.6 - 8.2	6.9	5.6 - 8.2
RET%	4.64	3.76 - 5.52	2.12	1.68 - 2.57	0.99	0.62 - 1.36
RET# (10 ⁶ /μL)	0.1085	0.0846 - 0.1324	0.0938	0.0760 - 0.1116	0.0529	0.0370 - 0.0688
IRF (%)	38.8	1.6 - 76.1	43.0	4.3 - 81.6	31.8	4.5 - 59.2
RET-He (pg)	25.0	21.5 - 28.5	25.8	22.4 - 29.1	27.8	23.6 - 31.9