



XN CHECK™

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

Expiration Date:	2024-08-11		Quality Control Data Due Date #1: 01-Jul-24		Quality Control Data Due Date #2: 11-Aug-24	
Lot Number:	41441101		41441102		41441103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.42	2.30 - 2.54	4.36	4.18 - 4.53	5.08	4.88 - 5.29
HGB (g/dL)	5.8	5.5 - 6.1	12.6	12.1 - 13.1	15.6	15.0 - 16.3
HCT (%)	16.9	15.7 - 18.1	35.7	33.5 - 37.8	43.8	41.2 - 46.5
MCV (fL)	69.8	65.7 - 74.0	81.9	77.0 - 86.8	86.2	81.1 - 91.4
MCH (pg)	24.0	22.1 - 25.9	28.9	26.9 - 31.0	30.8	28.9 - 32.6
MCHC (g/dL)	34.3	30.9 - 37.8	35.3	32.2 - 38.5	35.7	32.8 - 38.6
RDW-SD (fL)	48.8	45.9 - 51.8	43.5	40.9 - 46.1	46.5	42.8 - 50.2
RDW-CV (%)	19.5	18.3 - 20.7	14.7	13.8 - 15.6	14.8	13.6 - 16.0
PLT (10 ³ /μL)	92	57 - 128	254	213 - 295	566	493 - 640
PLT-F (10 ³ /μL)	86	63 - 109	256	187 - 326	543	418 - 667
IPF (%)	19.2	16.7 - 21.6	20.1	16.1 - 24.1	19.9	15.7 - 24.1
IPF#	16.5	14.3 - 18.6	50.3	40.2 - 60.3	106.4	84.1 - 128.8
MPV (fL)	8.4	7.0 - 9.7	9.5	8.8 - 10.3	9.4	8.7 - 10.2
WBC (10 ³ /μL)	3.18	2.86 - 3.49	7.06	6.57 - 7.55	16.69	15.69 - 17.69
NEUT# (10 ³ /μL)	1.25	1.02 - 1.47	3.00	2.58 - 3.42	7.92	6.89 - 8.95
LYMPH# (10 ³ /μL)	1.05	0.76 - 1.33	2.08	1.58 - 2.58	4.04	2.99 - 5.09
MONO# (10 ³ /μL)	0.43	0.19 - 0.66	0.92	0.46 - 1.39	2.08	1.14 - 3.02
EO# (10 ³ /μL)	0.31	0.19 - 0.42	0.72	0.45 - 0.98	1.84	1.14 - 2.54
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.34	0.29 - 0.40	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.32	0.25 - 0.38	0.76	0.62 - 0.91	1.98	1.63 - 2.34
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.44	0.32 - 0.56	1.11	0.89 - 1.33
NEUT%	39.2	33.7 - 44.7	42.4	37.8 - 47.1	47.4	42.7 - 52.2
LYMPH%	32.9	24.7 - 41.2	29.5	23.0 - 35.9	24.2	18.1 - 30.2
MONO%	13.4	6.2 - 20.7	13.1	6.8 - 19.4	12.5	7.0 - 18.0
EO%	9.7	6.1 - 13.3	10.2	6.5 - 13.8	11.0	7.0 - 15.1
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.5	4.8	4.3 - 5.4
IG (%)	10.0	8.1 - 11.9	10.8	8.9 - 12.6	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.7	2.5 - 6.8	6.2	4.5 - 8.0	6.7	5.4 - 7.9
RET%	5.86	4.75 - 6.98	2.35	1.86 - 2.85	1.28	0.81 - 1.76
RET# (10 ⁶ /μL)	0.1418	0.1106 - 0.1730	0.1025	0.0830 - 0.1219	0.0652	0.0456 - 0.0847
IRF (%)	36.6	1.5 - 71.7	37.9	3.8 - 71.9	29.3	4.1 - 54.6
RET-He (pg)	25.7	22.1 - 29.3	26.5	23.1 - 30.0	27.8	23.6 - 32.0



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-08-11		Quality Control Data Due Date #1: 01-Jul-24		Quality Control Data Due Date #2: 11-Aug-24	
Lot Number:	41441101		41441102		41441103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.41	2.29 - 2.53	4.37	4.20 - 4.55	5.12	4.91 - 5.32
HGB (g/dL)	5.8	5.5 - 6.1	12.6	12.1 - 13.1	15.7	15.0 - 16.3
HCT (%)	16.9	15.7 - 18.1	35.8	33.7 - 38.0	44.1	41.5 - 46.8
MCV (fL)	70.2	65.9 - 74.4	81.9	77.0 - 86.9	86.2	81.0 - 91.4
MCH (pg)	24.0	22.1 - 25.9	28.9	26.8 - 30.9	30.6	28.8 - 32.4
MCHC (g/dL)	34.2	30.8 - 37.7	35.2	32.1 - 38.4	35.5	32.6 - 38.3
RDW-SD (fL)	49.8	46.8 - 52.8	43.8	41.2 - 46.4	46.3	42.6 - 50.0
RDW-CV (%)	19.6	18.5 - 20.8	14.8	13.9 - 15.7	14.9	13.7 - 16.1
PLT (10 ³ /μL)	94	66 - 122	253	217 - 288	569	506 - 631
MPV (fL)	8.4	7.3 - 9.5	9.5	8.8 - 10.3	9.4	8.7 - 10.1
WBC (10 ³ /μL)	3.41	2.97 - 3.85	7.80	7.02 - 8.58	18.53	17.05 - 20.01
NEUT# (10 ³ /μL)	1.25	1.02 - 1.47	3.02	2.60 - 3.45	7.91	6.88 - 8.94
LYMPH# (10 ³ /μL)	1.18	0.86 - 1.50	2.35	1.78 - 2.91	4.60	3.40 - 5.79
MONO# (10 ³ /μL)	0.38	0.17 - 0.59	0.87	0.44 - 1.31	2.01	1.10 - 2.91
EO# (10 ³ /μL)	0.31	0.19 - 0.42	0.74	0.46 - 1.01	1.94	1.20 - 2.68
BASO# (10 ³ /μL)	0.17	0.10 - 0.23	0.40	0.27 - 0.53	1.05	0.73 - 1.36
IG # (10 ³ /μL)	0.32	0.24 - 0.41	0.78	0.63 - 0.94	2.05	1.66 - 2.44
NEUT%	38.1	32.7 - 43.4	41.0	36.5 - 45.5	45.2	40.7 - 49.7
LYMPH%	35.9	26.9 - 44.9	31.8	24.8 - 38.8	26.3	19.7 - 32.8
MONO%	11.5	5.3 - 17.7	11.8	6.2 - 17.5	11.5	6.4 - 16.5
EO%	9.4	5.9 - 12.8	10.0	6.4 - 13.6	11.1	7.0 - 15.2
BASO%	5.2	3.4 - 7.0	5.4	3.8 - 7.1	6.0	4.2 - 7.7
IG (%)	9.9	7.8 - 12.0	10.6	8.5 - 12.7	11.7	9.7 - 13.7
RET%	7.18	5.32 - 9.05	2.79	2.07 - 3.52	1.33	0.88 - 1.78
RET# (10 ⁶ /μL)	0.1734	0.1266 - 0.2202	0.1222	0.0916 - 0.1527	0.0679	0.0441 - 0.0916
IRF (%)	31.3	1.3 - 61.3	35.2	3.5 - 66.9	29.5	4.1 - 54.8
RET-He (pg)	24.5	21.1 - 27.9	25.1	21.8 - 28.3	26.0	22.1 - 29.9



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

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Lot Number:	41441101		41441102		41441103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.45	2.33 - 2.57	4.39	4.21 - 4.57	5.15	4.94 - 5.35
HGB (g/dL)	5.77	5.48 - 6.06	12.60	12.09 - 13.10	15.70	15.08 - 16.33
HCT (%)	17.0	15.8 - 18.1	35.6	33.5 - 37.7	43.8	41.2 - 46.4
MCV (fL)	69.2	65.0 - 73.3	81.1	76.2 - 86.0	85.1	80.0 - 90.2
MCH (pg)	23.5	21.7 - 25.4	28.7	26.7 - 30.7	30.5	28.7 - 32.4
MCHC (g/dL)	34.0	30.6 - 37.4	35.4	32.2 - 38.6	35.9	33.0 - 38.7
RDW-SD (fL)	47.6	44.7 - 50.4	45.5	42.7 - 48.2	48.1	44.3 - 52.0
RDW-CV (%)	19.7	18.5 - 20.8	15.8	14.8 - 16.7	16.0	14.8 - 17.3
PLT (10 ³ /μL)	97	60 - 133	260	219 - 302	579	504 - 654
PLT-F (10 ³ /μL)	88	64 - 111	263	192 - 333	555	427 - 683
IPF (%)	19.1	16.6 - 21.6	20.1	16.1 - 24.2	20.1	15.9 - 24.3
IPF#	16.7	14.6 - 18.9	51.6	41.3 - 61.9	109.9	86.8 - 133.0
MPV (fL)	9.4	7.9 - 10.9	10.7	9.9 - 11.6	10.6	9.7 - 11.4
WBC (10 ³ /μL)	3.19	2.87 - 3.51	7.03	6.54 - 7.52	16.66	15.66 - 17.66
NEUT# (10 ³ /μL)	1.25	1.03 - 1.48	2.96	2.54 - 3.37	7.83	6.81 - 8.84
LYMPH# (10 ³ /μL)	1.06	0.78 - 1.35	2.11	1.60 - 2.62	4.05	3.00 - 5.10
MONO# (10 ³ /μL)	0.42	0.18 - 0.65	0.91	0.45 - 1.36	2.08	1.15 - 3.02
EO# (10 ³ /μL)	0.31	0.19 - 0.42	0.72	0.45 - 0.99	1.90	1.18 - 2.62
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.34	0.28 - 0.39	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.32	0.25 - 0.39	0.75	0.61 - 0.89	1.96	1.60 - 2.31
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.44	0.32 - 0.56	1.10	0.88 - 1.32
NEUT%	39.3	33.8 - 44.8	42.1	37.4 - 46.7	47.0	42.3 - 51.7
LYMPH%	33.4	25.0 - 41.7	30.0	23.4 - 36.6	24.3	18.2 - 30.4
MONO%	13.1	6.0 - 20.1	12.9	6.7 - 19.1	12.5	7.0 - 18.0
EO%	9.6	6.0 - 13.1	10.2	6.6 - 13.9	11.4	7.2 - 15.6
BASO%	4.7	3.8 - 5.6	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.0	8.1 - 11.9	10.7	8.8 - 12.5	11.7	9.9 - 13.6
NRBC% (/100 WBC)	4.6	2.5 - 6.7	6.3	4.5 - 8.1	6.6	5.4 - 7.9
RET%	5.52	4.47 - 6.56	2.22	1.75 - 2.68	1.23	0.77 - 1.68
RET# (10 ⁶ /μL)	0.1352	0.1054 - 0.1649	0.0972	0.0788 - 0.1157	0.0633	0.0443 - 0.0822
IRF (%)	38.1	1.5 - 74.6	39.2	3.9 - 74.5	29.4	4.1 - 54.7
RET-He (pg)	25.8	22.2 - 29.4	26.6	23.2 - 30.1	28.0	23.8 - 32.2