



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:	41431101		41431102		41431103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.33	2.22 - 2.45	4.30	4.13 - 4.47	5.00	4.80 - 5.19
HGB (g/dL)	5.6	5.3 - 5.8	12.0	11.5 - 12.5	15.4	14.7 - 16.0
HCT (%)	16.3	15.1 - 17.4	34.3	32.3 - 36.4	43.0	40.4 - 45.5
MCV (fL)	69.8	65.6 - 74.0	79.8	75.0 - 84.6	86.0	80.9 - 91.2
MCH (pg)	23.9	22.0 - 25.8	27.9	25.9 - 29.8	30.7	28.9 - 32.6
MCHC (g/dL)	34.2	30.8 - 37.7	34.9	31.8 - 38.0	35.7	32.9 - 38.6
RDW-SD (fL)	50.4	47.3 - 53.4	47.3	44.5 - 50.1	44.8	41.2 - 48.4
RDW-CV (%)	20.4	19.2 - 21.6	16.3	15.4 - 17.3	14.3	13.2 - 15.5
PLT (10 ³ /μL)	89	55 - 122	237	199 - 275	539	469 - 609
PLT-F (10 ³ /μL)	83	61 - 105	235	171 - 298	518	399 - 637
IPF (%)	19.2	16.7 - 21.7	19.9	15.9 - 23.9	19.9	15.7 - 24.1
IPF#	15.9	13.9 - 18.0	45.7	36.5 - 54.8	101.6	80.3 - 123.0
MPV (fL)	8.3	7.0 - 9.6	9.7	8.9 - 10.5	9.6	8.8 - 10.3
WBC (10 ³ /μL)	3.09	2.79 - 3.40	6.83	6.35 - 7.30	16.40	15.41 - 17.38
NEUT# (10 ³ /μL)	1.21	0.99 - 1.43	2.91	2.50 - 3.32	7.79	6.78 - 8.80
LYMPH# (10 ³ /μL)	1.03	0.75 - 1.31	2.00	1.52 - 2.48	4.02	2.97 - 5.06
MONO# (10 ³ /μL)	0.41	0.18 - 0.64	0.88	0.44 - 1.31	1.90	1.05 - 2.76
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.71	0.45 - 0.97	1.89	1.17 - 2.61
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.79	0.69 - 0.90
IG # (10 ³ /μL)	0.31	0.24 - 0.37	0.74	0.60 - 0.88	1.95	1.60 - 2.30
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.43	0.32 - 0.55	1.08	0.87 - 1.30
NEUT%	39.0	33.6 - 44.5	42.6	37.9 - 47.3	47.5	42.8 - 52.3
LYMPH%	33.4	25.0 - 41.7	29.3	22.9 - 35.8	24.5	18.4 - 30.6
MONO%	13.3	6.1 - 20.4	12.8	6.7 - 19.0	11.6	6.5 - 16.7
EO%	9.6	6.0 - 13.1	10.4	6.7 - 14.1	11.5	7.3 - 15.8
BASO%	4.7	3.8 - 5.6	4.8	4.2 - 5.5	4.8	4.3 - 5.4
IG (%)	9.9	8.1 - 11.8	10.8	9.0 - 12.7	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.7	2.5 - 6.9	6.3	4.6 - 8.1	6.6	5.4 - 7.9
RET%	5.88	4.77 - 7.00	2.52	1.99 - 3.05	1.20	0.76 - 1.65
RET# (10 ⁶ /μL)	0.1372	0.1070 - 0.1674	0.1082	0.0877 - 0.1288	0.0602	0.0421 - 0.0782
IRF (%)	38.4	1.5 - 75.2	39.3	3.9 - 74.7	30.8	4.3 - 57.2
RET-He (pg)	25.0	21.5 - 28.5	26.0	22.6 - 29.4	27.3	23.2 - 31.4



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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:	41431101		41431102		41431103	
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	2.20 - 2.43	4.30	4.12 - 4.47	5.01	4.81 - 5.21
HGB (g/dL)	5.6	5.3 - 5.8	12.0	11.5 - 12.4	15.3	14.7 - 15.9
HCT (%)	16.1	15.0 - 17.2	34.1	32.0 - 36.1	42.8	40.2 - 45.4
MCV (fL)	69.7	65.5 - 73.9	79.3	74.5 - 84.0	85.5	80.3 - 90.6
MCH (pg)	24.0	22.1 - 25.9	27.8	25.9 - 29.8	30.6	28.8 - 32.4
MCHC (g/dL)	34.5	31.0 - 37.9	35.1	31.9 - 38.3	35.8	33.0 - 38.7
RDW-SD (fL)	51.3	48.2 - 54.4	47.5	44.7 - 50.4	44.3	40.8 - 47.9
RDW-CV (%)	20.7	19.4 - 21.9	16.6	15.6 - 17.6	14.5	13.3 - 15.6
PLT (10 ³ /μL)	90	63 - 117	240	206 - 274	544	484 - 604
MPV (fL)	8.3	7.2 - 9.4	9.6	8.9 - 10.4	9.5	8.8 - 10.2
WBC (10 ³ /μL)	3.30	2.87 - 3.73	7.52	6.77 - 8.28	18.09	16.65 - 19.54
NEUT# (10 ³ /μL)	1.20	0.99 - 1.42	2.94	2.52 - 3.35	7.81	6.80 - 8.83
LYMPH# (10 ³ /μL)	1.14	0.83 - 1.45	2.25	1.71 - 2.78	4.46	3.30 - 5.62
MONO# (10 ³ /μL)	0.36	0.16 - 0.57	0.83	0.42 - 1.25	1.92	1.06 - 2.79
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.71	0.45 - 0.98	1.87	1.16 - 2.58
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.39	0.27 - 0.52	1.03	0.72 - 1.35
IG # (10 ³ /μL)	0.31	0.23 - 0.39	0.76	0.61 - 0.91	2.02	1.64 - 2.41
NEUT%	38.0	32.6 - 43.3	41.2	36.7 - 45.7	45.7	41.1 - 50.2
LYMPH%	36.1	27.0 - 45.1	31.5	24.6 - 38.5	26.1	19.6 - 32.6
MONO%	11.5	5.3 - 17.7	11.7	6.1 - 17.3	11.2	6.3 - 16.2
EO%	9.4	5.9 - 12.9	10.0	6.4 - 13.6	10.9	6.9 - 15.0
BASO%	5.1	3.3 - 6.9	5.5	3.9 - 7.2	6.1	4.3 - 7.8
IG (%)	9.8	7.7 - 11.9	10.7	8.6 - 12.8	11.8	9.8 - 13.8
RET%	7.18	5.31 - 9.04	2.96	2.19 - 3.72	1.23	0.81 - 1.65
RET# (10 ⁶ /μL)	0.1660	0.1212 - 0.2108	0.1270	0.0953 - 0.1588	0.0616	0.0400 - 0.0831
IRF (%)	35.3	1.4 - 69.2	35.3	3.5 - 67.1	31.1	4.3 - 57.8
RET-He (pg)	24.1	20.7 - 27.4	24.8	21.5 - 28.0	25.5	21.7 - 29.3



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

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Lot Number:	41431101		41431102		41431103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.36	2.24 - 2.48	4.36	4.18 - 4.53	5.06	4.86 - 5.26
HGB (g/dL)	5.53	5.25 - 5.80	11.98	11.50 - 12.46	15.39	14.78 - 16.01
HCT (%)	16.4	15.2 - 17.5	34.0	32.0 - 36.0	42.8	40.2 - 45.4
MCV (fL)	69.4	65.2 - 73.6	78.1	73.4 - 82.7	84.6	79.5 - 89.7
MCH (pg)	23.4	21.5 - 25.3	27.5	25.6 - 29.4	30.4	28.6 - 32.3
MCHC (g/dL)	33.7	30.3 - 37.1	35.2	32.1 - 38.4	36.0	33.1 - 38.8
RDW-SD (fL)	50.3	47.2 - 53.3	46.9	44.1 - 49.7	46.0	42.4 - 49.7
RDW-CV (%)	20.8	19.6 - 22.1	17.1	16.1 - 18.2	15.4	14.1 - 16.6
PLT (10 ³ /μL)	94	59 - 130	244	205 - 283	553	481 - 625
PLT-F (10 ³ /μL)	84	61 - 107	241	176 - 307	530	408 - 652
IPF (%)	19.2	16.7 - 21.7	19.9	15.9 - 23.8	20.1	15.8 - 24.3
IPF#	16.2	14.1 - 18.3	46.8	37.4 - 56.1	104.7	82.7 - 126.7
MPV (fL)	9.3	7.8 - 10.8	10.9	10.0 - 11.8	10.7	9.9 - 11.6
WBC (10 ³ /μL)	3.12	2.81 - 3.43	6.84	6.36 - 7.32	16.38	15.39 - 17.36
NEUT# (10 ³ /μL)	1.21	1.00 - 1.43	2.92	2.51 - 3.33	7.75	6.75 - 8.76
LYMPH# (10 ³ /μL)	1.06	0.77 - 1.34	2.02	1.53 - 2.50	4.05	3.00 - 5.10
MONO# (10 ³ /μL)	0.40	0.18 - 0.63	0.89	0.44 - 1.33	1.92	1.06 - 2.79
EO# (10 ³ /μL)	0.30	0.19 - 0.41	0.69	0.43 - 0.94	1.86	1.15 - 2.57
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.79	0.69 - 0.89
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.74	0.60 - 0.88	1.94	1.59 - 2.28
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.43	0.31 - 0.54	1.08	0.86 - 1.30
NEUT%	38.9	33.5 - 44.3	42.7	38.0 - 47.4	47.3	42.6 - 52.1
LYMPH%	33.8	25.4 - 42.3	29.5	23.0 - 36.0	24.7	18.5 - 30.9
MONO%	13.0	6.0 - 20.0	13.0	6.7 - 19.2	11.8	6.6 - 16.9
EO%	9.6	6.0 - 13.1	10.0	6.4 - 13.6	11.4	7.2 - 15.5
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	10.8	9.0 - 12.7	11.8	9.9 - 13.7
NRBC% (/100 WBC)	4.6	2.5 - 6.8	6.2	4.5 - 8.0	6.6	5.3 - 7.8
RET%	5.57	4.51 - 6.63	2.37	1.87 - 2.87	1.14	0.72 - 1.56
RET# (10 ⁶ /μL)	0.1316	0.1027 - 0.1606	0.1033	0.0836 - 0.1229	0.0574	0.0402 - 0.0747
IRF (%)	39.2	1.6 - 76.8	40.6	4.1 - 77.1	31.0	4.3 - 57.7
RET-He (pg)	25.1	21.6 - 28.6	26.1	22.7 - 29.5	27.5	23.4 - 31.6