



XN CHECK™

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

Expiration Date:	2024-06-16		Quality Control Data Due Date #1: 06-May-24		Quality Control Data Due Date #2: 16-Jun-24	
Lot Number:	40851101		40851102		40851103	
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	4.26	4.09 - 4.43	5.02	4.82 - 5.22
HGB (g/dL)	5.8	5.5 - 6.1	12.0	11.5 - 12.5	15.6	15.0 - 16.2
HCT (%)	17.1	15.9 - 18.3	34.7	32.6 - 36.8	44.1	41.5 - 46.8
MCV (fL)	74.1	69.6 - 78.5	81.6	76.7 - 86.5	87.9	82.6 - 93.1
MCH (pg)	25.3	23.3 - 27.3	28.1	26.2 - 30.1	31.1	29.2 - 32.9
MCHC (g/dL)	34.2	30.7 - 37.6	34.5	31.4 - 37.6	35.4	32.5 - 38.2
RDW-SD (fL)	45.5	42.8 - 48.3	47.3	44.5 - 50.2	49.4	45.5 - 53.4
RDW-CV (%)	17.3	16.2 - 18.3	16.1	15.1 - 17.1	15.4	14.2 - 16.6
PLT (10 ³ /μL)	91	57 - 126	242	204 - 281	546	475 - 616
PLT-F (10 ³ /μL)	85	62 - 108	246	180 - 313	522	402 - 642
IPF (%)	19.2	16.7 - 21.7	20.0	16.0 - 24.0	20.2	15.9 - 24.4
IPF#	16.3	14.2 - 18.5	48.1	38.5 - 57.7	103.8	82.0 - 125.6
MPV (fL)	8.6	7.3 - 10.0	9.8	9.0 - 10.6	9.6	8.9 - 10.4
WBC (10 ³ /μL)	3.05	2.74 - 3.35	6.86	6.38 - 7.34	16.72	15.72 - 17.72
NEUT# (10 ³ /μL)	1.21	0.99 - 1.43	3.03	2.61 - 3.46	8.02	6.98 - 9.06
LYMPH# (10 ³ /μL)	1.02	0.75 - 1.30	1.95	1.48 - 2.42	3.90	2.89 - 4.92
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.82	0.41 - 1.22	2.08	1.14 - 3.01
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.73	0.46 - 1.00	1.91	1.19 - 2.64
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.31	0.24 - 0.37	0.77	0.62 - 0.91	2.02	1.65 - 2.38
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.45	0.33 - 0.58	1.16	0.93 - 1.39
NEUT%	39.8	34.2 - 45.3	44.2	39.3 - 49.0	48.0	43.2 - 52.8
LYMPH%	33.6	25.2 - 42.0	28.5	22.2 - 34.7	23.3	17.5 - 29.2
MONO%	12.3	5.7 - 19.0	11.9	6.2 - 17.6	12.4	7.0 - 17.9
EO%	9.6	6.0 - 13.1	10.7	6.8 - 14.5	11.4	7.2 - 15.7
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	10.1	8.2 - 12.0	11.1	9.3 - 13.0	12.1	10.1 - 14.0
NRBC% (/100 WBC)	4.9	2.6 - 7.1	6.6	4.7 - 8.4	6.9	5.6 - 8.2
RET%	5.50	4.45 - 6.54	2.33	1.84 - 2.82	1.19	0.75 - 1.64
RET# (10 ⁶ /μL)	0.1268	0.0989 - 0.1547	0.0993	0.0805 - 0.1182	0.0600	0.0420 - 0.0780
IRF (%)	38.6	1.5 - 75.7	40.3	4.0 - 76.5	31.8	4.4 - 59.1
RET-He (pg)	24.3	20.9 - 27.7	25.3	22.0 - 28.6	27.0	23.0 - 31.1



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-06-16		Quality Control Data Due Date #1: 06-May-24		Quality Control Data Due Date #2: 16-Jun-24	
Lot Number:	40851101		40851102		40851103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.30	2.19 - 2.42	4.25	4.08 - 4.42	5.03	4.83 - 5.23
HGB (g/dL)	5.9	5.6 - 6.1	12.0	11.5 - 12.5	15.5	14.9 - 16.1
HCT (%)	17.0	15.8 - 18.2	34.3	32.3 - 36.4	43.8	41.2 - 46.4
MCV (fL)	73.7	69.3 - 78.2	80.9	76.0 - 85.7	87.0	81.8 - 92.3
MCH (pg)	25.4	23.4 - 27.5	28.2	26.2 - 30.2	30.8	29.0 - 32.7
MCHC (g/dL)	34.5	31.0 - 37.9	34.9	31.7 - 38.0	35.4	32.6 - 38.2
RDW-SD (fL)	46.6	43.8 - 49.4	47.3	44.4 - 50.1	49.1	45.1 - 53.0
RDW-CV (%)	17.6	16.6 - 18.7	16.3	15.3 - 17.2	15.5	14.2 - 16.7
PLT (10 ³ /μL)	92	65 - 120	243	209 - 277	540	481 - 599
MPV (fL)	8.6	7.5 - 9.7	9.8	9.0 - 10.5	9.6	8.9 - 10.2
WBC (10 ³ /μL)	3.28	2.85 - 3.71	7.57	6.81 - 8.33	18.52	17.04 - 20.00
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.05	2.62 - 3.48	7.98	6.95 - 9.02
LYMPH# (10 ³ /μL)	1.12	0.81 - 1.42	2.18	1.66 - 2.70	4.43	3.28 - 5.58
MONO# (10 ³ /μL)	0.35	0.15 - 0.55	0.76	0.38 - 1.13	1.95	1.07 - 2.83
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.75	0.47 - 1.02	1.99	1.23 - 2.75
BASO# (10 ³ /μL)	0.16	0.10 - 0.23	0.41	0.28 - 0.54	1.09	0.76 - 1.41
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.79	0.63 - 0.95	2.08	1.69 - 2.48
NEUT%	38.7	33.3 - 44.1	42.7	38.0 - 47.4	45.8	41.2 - 50.4
LYMPH%	35.5	26.6 - 44.3	30.5	23.8 - 37.2	25.4	19.0 - 31.7
MONO%	11.2	5.1 - 17.2	10.6	5.5 - 15.7	11.2	6.3 - 16.1
EO%	9.5	6.0 - 13.0	10.5	6.7 - 14.2	11.4	7.2 - 15.6
BASO%	5.2	3.4 - 7.0	5.8	4.0 - 7.5	6.2	4.4 - 8.0
IG (%)	10.1	8.0 - 12.2	11.1	8.9 - 13.3	12.0	9.9 - 14.0
RET%	6.63	4.91 - 8.35	2.72	2.02 - 3.43	1.26	0.83 - 1.69
RET# (10 ⁶ /μL)	0.1526	0.1114 - 0.1938	0.1157	0.0867 - 0.1446	0.0635	0.0413 - 0.0857
IRF (%)	33.3	1.3 - 65.2	35.3	3.5 - 67.0	30.0	4.2 - 55.7
RET-He (pg)	23.3	20.0 - 26.5	24.1	20.9 - 27.2	25.1	21.4 - 28.9



XN CHECK™

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

Expiration Date:	2024-06-16		Quality Control Data Due Date #1: 06-May-24		Quality Control Data Due Date #2: 16-Jun-24	
Lot Number:	40851101		40851102		40851103	
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	4.31	4.14 - 4.49	5.10	4.90 - 5.31
HGB (g/dL)	5.85	5.56 - 6.15	11.99	11.51 - 12.47	15.59	14.97 - 16.22
HCT (%)	17.1	15.9 - 18.3	33.9	31.9 - 36.0	43.4	40.8 - 46.0
MCV (fL)	72.6	68.2 - 76.9	78.7	74.0 - 83.4	85.1	80.0 - 90.2
MCH (pg)	24.8	22.8 - 26.8	27.8	25.8 - 29.7	30.6	28.7 - 32.4
MCHC (g/dL)	34.2	30.8 - 37.6	35.3	32.1 - 38.5	35.9	33.0 - 38.8
RDW-SD (fL)	44.6	41.9 - 47.2	45.3	42.6 - 48.1	49.2	45.3 - 53.2
RDW-CV (%)	17.6	16.6 - 18.7	16.5	15.5 - 17.5	16.4	15.1 - 17.7
PLT (10 ³ /μL)	96	60 - 133	249	209 - 289	555	483 - 627
PLT-F (10 ³ /μL)	86	63 - 110	250	183 - 318	535	412 - 658
IPF (%)	19.1	16.7 - 21.6	20.0	16.0 - 24.0	19.8	15.6 - 24.0
IPF#	16.5	14.4 - 18.7	48.8	39.0 - 58.5	104.4	82.5 - 126.3
MPV (fL)	9.7	8.2 - 11.3	11.0	10.1 - 11.9	10.8	9.9 - 11.7
WBC (10 ³ /μL)	3.09	2.78 - 3.40	6.88	6.40 - 7.36	16.77	15.77 - 17.78
NEUT# (10 ³ /μL)	1.23	1.01 - 1.45	3.02	2.60 - 3.45	7.99	6.95 - 9.03
LYMPH# (10 ³ /μL)	1.03	0.76 - 1.31	1.99	1.51 - 2.46	3.93	2.91 - 4.96
MONO# (10 ³ /μL)	0.38	0.17 - 0.59	0.80	0.40 - 1.20	2.07	1.14 - 3.00
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.74	0.47 - 1.01	1.97	1.22 - 2.71
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.81	0.71 - 0.92
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.77	0.62 - 0.91	2.00	1.64 - 2.36
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.45	0.33 - 0.57	1.17	0.94 - 1.41
NEUT%	39.9	34.3 - 45.4	44.0	39.1 - 48.8	47.6	42.9 - 52.4
LYMPH%	33.5	25.1 - 41.8	28.9	22.5 - 35.2	23.5	17.6 - 29.3
MONO%	12.3	5.7 - 18.9	11.6	6.0 - 17.2	12.3	6.9 - 17.8
EO%	9.6	6.1 - 13.2	10.7	6.9 - 14.6	11.7	7.4 - 16.1
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.1	8.2 - 12.0	11.2	9.3 - 13.1	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.7	2.6 - 6.9	6.5	4.7 - 8.4	7.0	5.7 - 8.3
RET%	5.16	4.18 - 6.14	2.21	1.75 - 2.67	1.16	0.73 - 1.59
RET# (10 ⁶ /μL)	0.1217	0.0949 - 0.1485	0.0953	0.0772 - 0.1134	0.0593	0.0415 - 0.0770
IRF (%)	39.8	1.6 - 77.9	41.4	4.1 - 78.6	32.3	4.5 - 60.1
RET-He (pg)	24.6	21.1 - 28.0	25.7	22.3 - 29.0	27.6	23.4 - 31.7