



XN CHECK™

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

Expiration Date:	2024-04-21		Quality Control Data Due Date #1: 11-Mar-24		Quality Control Data Due Date #2: 21-Apr-24	
Lot Number:	40301101		40301102		40301103	
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	4.25	4.08 - 4.42	5.02	4.82 - 5.22
HGB (g/dL)	5.7	5.4 - 5.9	11.8	11.3 - 12.3	15.7	15.1 - 16.3
HCT (%)	16.6	15.5 - 17.8	33.9	31.9 - 36.0	44.1	41.4 - 46.7
MCV (fL)	71.7	67.4 - 76.0	79.8	75.0 - 84.6	87.8	82.5 - 93.0
MCH (pg)	24.4	22.4 - 26.3	27.8	25.8 - 29.7	31.3	29.4 - 33.2
MCHC (g/dL)	34.0	30.6 - 37.4	34.8	31.7 - 37.9	35.7	32.8 - 38.5
RDW-SD (fL)	53.6	50.4 - 56.8	49.7	46.7 - 52.6	46.1	42.4 - 49.8
RDW-CV (%)	20.9	19.7 - 22.2	17.2	16.2 - 18.3	14.5	13.4 - 15.7
PLT (10 ³ /μL)	90	56 - 124	256	215 - 297	558	485 - 630
PLT-F (10 ³ /μL)	84	61 - 106	253	185 - 322	528	407 - 650
IPF (%)	19.1	16.6 - 21.6	20.0	16.0 - 24.0	19.9	15.7 - 24.1
IPF#	16.0	13.9 - 18.1	49.4	39.5 - 59.3	103.7	82.0 - 125.5
MPV (fL)	8.2	6.9 - 9.5	10.2	9.4 - 11.0	10.0	9.2 - 10.8
WBC (10 ³ /μL)	3.05	2.74 - 3.35	6.85	6.37 - 7.33	16.90	15.88 - 17.91
NEUT# (10 ³ /μL)	1.20	0.98 - 1.41	3.03	2.60 - 3.45	8.01	6.97 - 9.05
LYMPH# (10 ³ /μL)	1.06	0.78 - 1.35	2.00	1.52 - 2.48	4.14	3.06 - 5.22
MONO# (10 ³ /μL)	0.35	0.15 - 0.54	0.76	0.38 - 1.15	2.05	1.13 - 2.97
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.73	0.46 - 0.99	1.89	1.17 - 2.61
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.82	0.71 - 0.92
IG # (10 ³ /μL)	0.31	0.24 - 0.37	0.76	0.62 - 0.91	2.01	1.65 - 2.37
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.43	0.31 - 0.54	1.13	0.91 - 1.36
NEUT%	39.3	33.8 - 44.8	44.2	39.3 - 49.1	47.4	42.6 - 52.1
LYMPH%	34.9	26.2 - 43.7	29.2	22.8 - 35.7	24.5	18.4 - 30.6
MONO%	11.4	5.2 - 17.6	11.2	5.8 - 16.5	12.1	6.8 - 17.4
EO%	9.6	6.0 - 13.1	10.6	6.8 - 14.4	11.2	7.0 - 15.3
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	9.2 - 13.0	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.8	2.6 - 7.1	6.2	4.5 - 8.0	6.7	5.4 - 8.0
RET%	5.58	4.52 - 6.64	2.43	1.92 - 2.94	1.19	0.75 - 1.63
RET# (10 ⁶ /μL)	0.1294	0.1009 - 0.1579	0.1034	0.0838 - 0.1230	0.0596	0.0417 - 0.0775
IRF (%)	33.4	1.3 - 65.4	34.6	3.5 - 65.7	27.4	3.8 - 50.9
RET-He (pg)	24.9	21.4 - 28.4	25.7	22.4 - 29.1	27.5	23.4 - 31.6



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-04-21		Quality Control Data Due Date #1: 11-Mar-24		Quality Control Data Due Date #2: 21-Apr-24	
Lot Number:	40301101		40301102		40301103	
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	2.21 - 2.44	4.27	4.09 - 4.44	5.05	4.84 - 5.25
HGB (g/dL)	5.7	5.4 - 6.0	11.9	11.4 - 12.3	15.8	15.1 - 16.4
HCT (%)	16.8	15.6 - 18.0	34.2	32.1 - 36.2	44.5	41.8 - 47.2
MCV (fL)	72.3	68.0 - 76.6	80.1	75.3 - 84.9	88.2	82.9 - 93.5
MCH (pg)	24.5	22.5 - 26.5	27.8	25.9 - 29.8	31.2	29.3 - 33.1
MCHC (g/dL)	33.9	30.5 - 37.3	34.7	31.6 - 37.8	35.4	32.6 - 38.2
RDW-SD (fL)	54.8	51.5 - 58.1	50.0	47.0 - 53.0	46.5	42.8 - 50.2
RDW-CV (%)	21.0	19.7 - 22.2	17.3	16.3 - 18.4	14.5	13.4 - 15.7
PLT (10 ³ /μL)	90	63 - 117	256	220 - 291	556	495 - 617
MPV (fL)	8.2	7.1 - 9.2	10.1	9.3 - 10.9	9.9	9.2 - 10.6
WBC (10 ³ /μL)	3.31	2.88 - 3.74	7.59	6.83 - 8.34	18.82	17.32 - 20.33
NEUT# (10 ³ /μL)	1.21	0.99 - 1.42	3.04	2.61 - 3.46	8.01	6.97 - 9.05
LYMPH# (10 ³ /μL)	1.17	0.86 - 1.49	2.21	1.68 - 2.74	4.69	3.47 - 5.91
MONO# (10 ³ /μL)	0.33	0.15 - 0.52	0.74	0.37 - 1.11	1.98	1.09 - 2.88
EO# (10 ³ /μL)	0.30	0.19 - 0.41	0.77	0.49 - 1.05	2.01	1.24 - 2.77
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)	0.31	0.24 - 0.39	0.79	0.63 - 0.95	2.08	1.69 - 2.48
NEUT%	38.0	32.7 - 43.3	42.3	37.7 - 47.0	45.1	40.6 - 49.6
LYMPH%	36.9	27.7 - 46.2	30.9	24.1 - 37.7	26.4	19.8 - 33.0
MONO%	10.5	4.8 - 16.2	10.3	5.4 - 15.3	11.2	6.3 - 16.1
EO%	9.4	5.9 - 12.9	10.7	6.9 - 14.6	11.3	7.1 - 15.5
BASO%	5.1	3.3 - 6.9	5.7	4.0 - 7.4	6.1	4.3 - 7.9
IG (%)	9.9	7.8 - 12.0	11.0	8.8 - 13.2	11.7	9.7 - 13.7
RET%	6.67	4.94 - 8.41	2.82	2.09 - 3.56	1.26	0.83 - 1.68
RET# (10 ⁶ /μL)	0.1550	0.1132 - 0.1969	0.1204	0.0903 - 0.1505	0.0634	0.0412 - 0.0855
IRF (%)	26.4	1.1 - 51.8	29.1	2.9 - 55.3	24.1	3.4 - 44.8
RET-He (pg)	23.6	20.3 - 26.9	24.2	21.1 - 27.4	25.3	21.5 - 29.1



XN CHECK™

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

Expiration Date:	2024-04-21		Quality Control Data Due Date #1: 11-Mar-24		Quality Control Data Due Date #2: 21-Apr-24	
Lot Number:	40301101		40301102		40301103	
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	4.28	4.11 - 4.46	5.08	4.88 - 5.28
HGB (g/dL)	5.66	5.38 - 5.94	11.79	11.32 - 12.27	15.75	15.12 - 16.38
HCT (%)	16.8	15.6 - 17.9	33.5	31.5 - 35.5	43.7	41.1 - 46.3
MCV (fL)	71.0	66.8 - 75.3	78.2	73.5 - 82.9	86.0	80.9 - 91.2
MCH (pg)	24.0	22.1 - 25.9	27.5	25.6 - 29.5	31.0	29.1 - 32.9
MCHC (g/dL)	33.7	30.4 - 37.1	35.2	32.0 - 38.4	36.0	33.2 - 38.9
RDW-SD (fL)	53.2	50.0 - 56.4	49.8	46.8 - 52.8	46.8	43.1 - 50.6
RDW-CV (%)	21.2	20.0 - 22.5	18.0	16.9 - 19.1	15.4	14.2 - 16.6
PLT (10 ³ /μL)	95	59 - 131	257	216 - 298	562	489 - 635
PLT-F (10 ³ /μL)	85	62 - 108	256	187 - 326	538	414 - 662
IPF (%)	19.2	16.7 - 21.7	20.1	16.0 - 24.1	20.0	15.8 - 24.2
IPF#	16.3	14.2 - 18.4	50.2	40.1 - 60.2	105.9	83.7 - 128.2
MPV (fL)	9.3	7.8 - 10.7	11.5	10.6 - 12.4	11.3	10.4 - 12.2
WBC (10 ³ /μL)	3.06	2.75 - 3.36	6.83	6.35 - 7.30	16.95	15.93 - 17.97
NEUT# (10 ³ /μL)	1.19	0.98 - 1.41	3.00	2.58 - 3.42	7.96	6.93 - 9.00
LYMPH# (10 ³ /μL)	1.07	0.78 - 1.36	2.00	1.52 - 2.48	4.14	3.06 - 5.22
MONO# (10 ³ /μL)	0.35	0.16 - 0.55	0.77	0.39 - 1.16	2.13	1.17 - 3.09
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.72	0.45 - 0.99	1.90	1.18 - 2.62
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.27 - 0.38	0.82	0.71 - 0.93
IG # (10 ³ /μL)	0.30	0.24 - 0.37	0.76	0.61 - 0.90	2.01	1.65 - 2.37
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.43	0.32 - 0.55	1.13	0.90 - 1.35
NEUT%	39.0	33.6 - 44.5	43.9	39.1 - 48.8	47.0	42.3 - 51.7
LYMPH%	35.0	26.2 - 43.7	29.3	22.9 - 35.8	24.4	18.3 - 30.5
MONO%	11.6	5.3 - 17.9	11.4	5.9 - 16.8	12.6	7.0 - 18.1
EO%	9.7	6.1 - 13.2	10.6	6.8 - 14.4	11.2	7.0 - 15.3
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	11.1	9.2 - 13.0	11.8	9.9 - 13.7
NRBC% (/100 WBC)	4.8	2.6 - 7.0	6.4	4.6 - 8.1	6.6	5.4 - 7.9
RET%	5.22	4.23 - 6.21	2.29	1.81 - 2.78	1.15	0.72 - 1.58
RET# (10 ⁶ /μL)	0.1233	0.0961 - 0.1504	0.0983	0.0796 - 0.1170	0.0584	0.0409 - 0.0760
IRF (%)	33.9	1.4 - 66.5	35.3	3.5 - 67.0	27.7	3.9 - 51.5
RET-He (pg)	24.6	21.2 - 28.1	25.5	22.2 - 28.8	27.4	23.3 - 31.5