



XN CHECK™

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

Expiration Date:	2022-09-11		Quality Control Data Due Date #1: 01-Aug-22		Quality Control Data Due Date #2: 11-Sep-22	
Lot Number:	21741101		21741102		21741103	
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	4.29	4.12 - 4.46	5.06	4.86 - 5.26
HGB (g/dL)	5.3	5.0 - 5.6	12.4	11.9 - 12.9	15.7	15.1 - 16.4
HCT (%)	15.8	14.7 - 16.9	35.8	33.6 - 37.9	44.5	41.9 - 47.2
MCV (fL)	68.4	64.3 - 72.5	83.4	78.4 - 88.4	88.0	82.8 - 93.3
MCH (pg)	22.9	21.0 - 24.7	28.9	26.9 - 31.0	31.1	29.3 - 33.0
MCHC (g/dL)	33.4	30.1 - 36.8	34.7	31.6 - 37.8	35.3	32.5 - 38.2
RDW-SD (fL)	48.1	45.3 - 51.0	47.2	44.4 - 50.1	49.6	45.6 - 53.6
RDW-CV (%)	19.9	18.7 - 21.1	15.8	14.9 - 16.8	15.7	14.4 - 16.9
PLT (10 ³ /μL)	93	58 - 128	243	216 - 269	554	505 - 604
PLT-F (10 ³ /μL)	84	62 - 107	251	183 - 318	531	409 - 653
IPF (%)	19.2	16.7 - 21.6	20.3	16.2 - 24.3	20.2	16.0 - 24.5
IPF#	16.1	14.0 - 18.2	48.4	38.7 - 58.1	104.8	82.8 - 126.8
MPV (fL)	8.8	7.4 - 10.2	9.2	8.5 - 9.8	9.0	8.6 - 9.5
WBC (10 ³ /μL)	2.94	2.65 - 3.24	6.92	6.43 - 7.40	16.35	15.37 - 17.33
NEUT# (10 ³ /μL)	1.17	0.96 - 1.39	2.95	2.54 - 3.36	7.67	6.67 - 8.66
LYMPH# (10 ³ /μL)	0.97	0.71 - 1.23	2.03	1.54 - 2.52	4.06	3.00 - 5.11
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.90	0.45 - 1.36	2.08	1.14 - 3.01
EO# (10 ³ /μL)	0.28	0.18 - 0.39	0.70	0.44 - 0.96	1.76	1.09 - 2.43
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.39	0.79	0.69 - 0.89
IG # (10 ³ /μL)	0.30	0.24 - 0.36	0.75	0.61 - 0.89	1.93	1.59 - 2.28
NRBC# (10 ³ /μL)	0.16	0.09 - 0.23	0.43	0.32 - 0.55	1.11	0.89 - 1.33
NEUT%	39.9	34.3 - 45.5	42.6	38.0 - 47.3	46.9	42.2 - 51.6
LYMPH%	33.0	24.7 - 41.2	29.4	22.9 - 35.8	24.8	18.6 - 31.0
MONO%	12.7	5.9 - 19.6	13.1	6.8 - 19.4	12.7	7.1 - 18.3
EO%	9.6	6.1 - 13.2	10.1	6.5 - 13.7	10.8	6.8 - 14.8
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.2	8.3 - 12.2	10.9	9.0 - 12.7	11.8	9.9 - 13.7
NRBC% (/100 WBC)	5.5	3.0 - 8.0	6.2	4.5 - 8.0	6.8	5.5 - 8.1
RET%	5.63	4.56 - 6.70	2.50	1.97 - 3.02	1.35	0.85 - 1.86
RET# (10 ⁶ /μL)	0.1303	0.1017 - 0.1590	0.1071	0.0868 - 0.1275	0.0685	0.0480 - 0.0891
IRF (%)	36.8	1.5 - 72.1	39.7	4.0 - 75.5	30.7	4.3 - 57.2
RET-He (pg)	24.4	21.0 - 27.9	25.6	22.2 - 28.9	27.5	23.4 - 31.6



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2022-09-11		Quality Control Data Due Date #1: 01-Aug-22		Quality Control Data Due Date #2: 11-Sep-22	
Lot Number:	21741101		21741102		21741103	
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	4.30	4.13 - 4.47	5.09	4.89 - 5.29
HGB (g/dL)	5.3	5.0 - 5.6	12.5	12.0 - 13.0	15.7	15.1 - 16.4
HCT (%)	15.6	14.5 - 16.6	35.5	33.4 - 37.6	44.4	41.7 - 47.0
MCV (fL)	67.6	63.5 - 71.6	82.5	77.6 - 87.5	87.2	82.0 - 92.4
MCH (pg)	23.0	21.1 - 24.8	29.0	26.9 - 31.0	30.9	29.1 - 32.8
MCHC (g/dL)	34.0	30.6 - 37.4	35.1	31.9 - 38.3	35.5	32.6 - 38.3
RDW-SD (fL)	48.4	45.5 - 51.3	47.1	44.3 - 49.9	48.7	44.8 - 52.6
RDW-CV (%)	20.1	18.9 - 21.3	15.7	14.8 - 16.7	15.4	14.1 - 16.6
PLT (10 ³ /μL)	97	68 - 125	249	214 - 284	565	503 - 628
MPV (fL)	8.6	7.5 - 9.7	9.0	8.2 - 9.7	8.8	8.2 - 9.4
WBC (10 ³ /μL)	3.20	2.78 - 3.61	7.70	6.93 - 8.47	18.14	16.69 - 19.59
NEUT# (10 ³ /μL)	1.17	0.96 - 1.39	3.00	2.58 - 3.43	7.72	6.71 - 8.72
LYMPH# (10 ³ /μL)	1.10	0.80 - 1.39	2.38	1.81 - 2.95	4.66	3.45 - 5.87
MONO# (10 ³ /μL)	0.33	0.14 - 0.51	0.79	0.39 - 1.18	1.89	1.04 - 2.74
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.73	0.46 - 1.01	1.87	1.16 - 2.58
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.41	0.28 - 0.55	1.06	0.74 - 1.38
IG # (10 ³ /μL)	0.31	0.23 - 0.38	0.79	0.63 - 0.94	2.00	1.62 - 2.38
NEUT%	38.4	33.1 - 43.8	41.1	36.5 - 45.6	44.9	40.4 - 49.4
LYMPH%	35.9	26.9 - 44.9	32.5	25.4 - 39.7	27.1	20.3 - 33.9
MONO%	10.7	4.9 - 16.5	10.8	5.6 - 15.9	11.0	6.2 - 15.8
EO%	9.7	6.1 - 13.3	10.0	6.4 - 13.7	10.9	6.8 - 14.9
BASO%	5.2	3.4 - 7.1	5.6	4.0 - 7.3	6.2	4.4 - 7.9
IG (%)	10.0	7.9 - 12.1	10.7	8.6 - 12.9	11.7	9.7 - 13.6
RET%	6.62	4.90 - 8.34	2.80	2.07 - 3.53	1.35	0.89 - 1.81
RET# (10 ⁶ /μL)	0.1525	0.1113 - 0.1936	0.1205	0.0904 - 0.1506	0.0689	0.0448 - 0.0930
IRF (%)	25.8	1.0 - 50.5	28.4	2.8 - 54.0	25.0	3.5 - 46.5
RET-He (pg)	22.8	19.6 - 26.0	23.6	20.5 - 26.7	24.8	21.1 - 28.5



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

Expiration Date:	2022-09-11		Quality Control Data Due Date #1: 01-Aug-22		Quality Control Data Due Date #2: 11-Sep-22	
Lot Number:	21741101		21741102		21741103	
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	4.34	4.16 - 4.51	5.12	4.92 - 5.33
HGB (g/dL)	5.30	5.04 - 5.57	12.47	11.97 - 12.97	15.83	15.19 - 16.46
HCT (%)	15.7	14.6 - 16.8	34.8	32.7 - 36.8	43.5	40.9 - 46.1
MCV (fL)	66.6	62.6 - 70.6	80.1	75.3 - 85.0	84.9	79.8 - 90.0
MCH (pg)	22.5	20.7 - 24.3	28.8	26.7 - 30.8	30.9	29.0 - 32.8
MCHC (g/dL)	33.7	30.4 - 37.1	35.9	32.7 - 39.1	36.4	33.5 - 39.3
RDW-SD (fL)	46.9	44.1 - 49.8	46.2	43.4 - 49.0	48.6	44.7 - 52.5
RDW-CV (%)	20.0	18.8 - 21.2	16.2	15.2 - 17.1	16.2	14.9 - 17.5
PLT (10 ³ /μL)	99	62 - 137	249	221 - 276	564	513 - 615
PLT-F (10 ³ /μL)	86	62 - 109	255	186 - 324	543	418 - 668
IPF (%)	19.1	16.6 - 21.6	20.1	16.1 - 24.2	20.2	16.0 - 24.4
IPF#	16.4	14.2 - 18.5	49.0	39.2 - 58.8	106.9	84.5 - 129.4
MPV (fL)	9.8	8.2 - 11.4	10.2	9.5 - 10.9	10.0	9.5 - 10.5
WBC (10 ³ /μL)	2.96	2.66 - 3.26	6.90	6.41 - 7.38	16.32	15.34 - 17.30
NEUT# (10 ³ /μL)	1.18	0.97 - 1.39	2.93	2.52 - 3.34	7.71	6.71 - 8.71
LYMPH# (10 ³ /μL)	0.97	0.71 - 1.23	2.01	1.53 - 2.50	3.96	2.93 - 4.99
MONO# (10 ³ /μL)	0.38	0.17 - 0.60	0.93	0.47 - 1.40	2.14	1.18 - 3.11
EO# (10 ³ /μL)	0.28	0.18 - 0.39	0.69	0.43 - 0.94	1.72	1.06 - 2.37
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.39	0.79	0.68 - 0.89
IG # (10 ³ /μL)	0.30	0.24 - 0.37	0.75	0.61 - 0.89	1.94	1.59 - 2.29
NRBC# (10 ³ /μL)	0.16	0.09 - 0.23	0.43	0.31 - 0.55	1.11	0.89 - 1.34
NEUT%	39.9	34.3 - 45.5	42.5	37.8 - 47.2	47.3	42.5 - 52.0
LYMPH%	32.8	24.6 - 41.0	29.2	22.8 - 35.6	24.3	18.2 - 30.3
MONO%	12.9	5.9 - 19.9	13.5	7.0 - 20.0	13.1	7.4 - 18.9
EO%	9.6	6.0 - 13.1	10.0	6.4 - 13.5	10.5	6.6 - 14.4
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	10.2	8.3 - 12.2	10.8	9.0 - 12.7	11.9	10.0 - 13.8
NRBC% (/100 WBC)	5.4	2.9 - 7.9	6.3	4.5 - 8.0	6.8	5.5 - 8.1
RET%	5.19	4.20 - 6.17	2.29	1.81 - 2.77	1.30	0.82 - 1.78
RET# (10 ⁶ /μL)	0.1224	0.0955 - 0.1493	0.0992	0.0804 - 0.1181	0.0665	0.0466 - 0.0865
IRF (%)	39.3	1.6 - 77.0	41.8	4.2 - 79.5	32.0	4.5 - 59.5
RET-He (pg)	24.4	21.0 - 27.8	25.5	22.2 - 28.8	27.5	23.4 - 31.7