



XN CHECK™

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

Expiration Date:	2024-09-08		Quality Control Data Due Date #1: 29-Jul-24		Quality Control Data Due Date #2: 08-Sep-24	
Lot Number:	41711101		41711102		41711103	
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	2.21 - 2.44	4.25	4.08 - 4.42	4.99	4.79 - 5.18
HGB (g/dL)	5.7	5.4 - 6.0	11.5	11.0 - 12.0	15.2	14.6 - 15.8
HCT (%)	16.6	15.4 - 17.8	33.1	31.1 - 35.1	42.5	40.0 - 45.1
MCV (fL)	71.4	67.1 - 75.7	77.9	73.3 - 82.6	85.3	80.1 - 90.4
MCH (pg)	24.4	22.4 - 26.3	27.1	25.2 - 29.0	30.5	28.6 - 32.3
MCHC (g/dL)	34.1	30.7 - 37.6	34.7	31.6 - 37.8	35.7	32.9 - 38.6
RDW-SD (fL)	48.4	45.5 - 51.3	46.7	43.9 - 49.5	47.9	44.0 - 51.7
RDW-CV (%)	18.9	17.7 - 20.0	16.7	15.7 - 17.7	15.4	14.2 - 16.7
PLT (10 ³ /μL)	90	56 - 124	237	199 - 275	528	459 - 596
PLT-F (10 ³ /μL)	83	60 - 105	233	170 - 295	500	385 - 615
IPF (%)	19.1	16.6 - 21.6	20.0	16.0 - 24.0	20.1	15.9 - 24.3
IPF#	15.7	13.7 - 17.8	45.4	36.3 - 54.4	99.0	78.2 - 119.7
MPV (fL)	8.8	7.4 - 10.2	9.4	8.6 - 10.1	9.2	8.5 - 10.0
WBC (10 ³ /μL)	3.15	2.83 - 3.46	7.16	6.66 - 7.66	16.76	15.76 - 17.77
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.18	2.74 - 3.63	8.11	7.05 - 9.16
LYMPH# (10 ³ /μL)	1.05	0.77 - 1.33	2.01	1.53 - 2.49	4.16	3.08 - 5.24
MONO# (10 ³ /μL)	0.43	0.19 - 0.66	0.88	0.44 - 1.32	1.80	0.99 - 2.61
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.74	0.47 - 1.02	1.89	1.17 - 2.61
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.34	0.29 - 0.40	0.81	0.71 - 0.92
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.81	0.65 - 0.96	2.03	1.66 - 2.39
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.44	0.32 - 0.56	1.12	0.89 - 1.34
NEUT%	38.9	33.4 - 44.3	44.5	39.6 - 49.3	48.4	43.5 - 53.2
LYMPH%	33.4	25.0 - 41.7	28.1	21.9 - 34.3	24.8	18.6 - 31.0
MONO%	13.5	6.2 - 20.8	12.3	6.4 - 18.1	10.7	6.0 - 15.4
EO%	9.4	5.9 - 12.9	10.4	6.7 - 14.1	11.3	7.1 - 15.5
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.0	8.1 - 11.9	11.3	9.3 - 13.2	12.1	10.2 - 14.0
NRBC% (/100 WBC)	4.8	2.6 - 7.0	6.1	4.4 - 7.8	6.7	5.4 - 7.9
RET%	5.98	4.84 - 7.11	2.42	1.91 - 2.92	1.20	0.76 - 1.65
RET# (10 ⁶ /μL)	0.1390	0.1084 - 0.1696	0.1028	0.0832 - 0.1223	0.0600	0.0420 - 0.0780
IRF (%)	41.8	1.7 - 81.9	41.2	4.1 - 78.2	32.4	4.5 - 60.3
RET-He (pg)	23.6	20.3 - 26.9	24.6	21.4 - 27.8	26.6	22.6 - 30.6



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-09-08		Quality Control Data Due Date #1: 29-Jul-24		Quality Control Data Due Date #2: 08-Sep-24	
Lot Number:	41711101		41711102		41711103	
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	4.23	4.06 - 4.40	4.98	4.78 - 5.18
HGB (g/dL)	5.7	5.4 - 5.9	11.5	11.0 - 12.0	15.2	14.6 - 15.8
HCT (%)	16.5	15.3 - 17.6	32.9	30.9 - 34.9	42.4	39.8 - 44.9
MCV (fL)	71.5	67.3 - 75.8	77.7	73.0 - 82.3	85.0	79.9 - 90.1
MCH (pg)	24.6	22.6 - 26.5	27.2	25.3 - 29.1	30.4	28.6 - 32.3
MCHC (g/dL)	34.3	30.9 - 37.8	35.0	31.8 - 38.1	35.8	32.9 - 38.7
RDW-SD (fL)	49.3	46.4 - 52.3	47.2	44.4 - 50.0	47.7	43.9 - 51.5
RDW-CV (%)	19.1	18.0 - 20.3	16.9	15.9 - 17.9	15.5	14.3 - 16.8
PLT (10 ³ /μL)	88	62 - 115	237	204 - 271	530	471 - 588
MPV (fL)	8.9	7.7 - 10.0	9.4	8.6 - 10.2	9.2	8.5 - 9.8
WBC (10 ³ /μL)	3.35	2.92 - 3.79	7.88	7.09 - 8.67	18.47	17.00 - 19.95
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.16	2.72 - 3.60	8.08	7.03 - 9.13
LYMPH# (10 ³ /μL)	1.16	0.85 - 1.47	2.28	1.73 - 2.83	4.67	3.46 - 5.89
MONO# (10 ³ /μL)	0.37	0.16 - 0.57	0.83	0.41 - 1.24	1.81	0.99 - 2.62
EO# (10 ³ /μL)	0.30	0.19 - 0.41	0.80	0.50 - 1.10	2.01	1.25 - 2.77
BASO# (10 ³ /μL)	0.17	0.10 - 0.23	0.43	0.29 - 0.56	1.06	0.74 - 1.38
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.82	0.65 - 0.98	2.10	1.70 - 2.49
NEUT%	38.0	32.6 - 43.3	42.2	37.5 - 46.8	45.8	41.3 - 50.4
LYMPH%	36.1	27.1 - 45.1	30.4	23.7 - 37.1	26.5	19.9 - 33.1
MONO%	11.4	5.3 - 17.6	11.0	5.7 - 16.3	10.2	5.7 - 14.8
EO%	9.3	5.9 - 12.7	10.7	6.8 - 14.5	11.4	7.2 - 15.6
BASO%	5.2	3.4 - 7.0	5.7	4.0 - 7.4	6.0	4.3 - 7.8
IG (%)	9.9	7.8 - 11.9	10.9	8.7 - 13.1	11.9	9.9 - 13.9
RET%	7.29	5.39 - 9.18	2.82	2.09 - 3.56	1.23	0.81 - 1.65
RET# (10 ⁶ /μL)	0.1678	0.1225 - 0.2130	0.1195	0.0897 - 0.1494	0.0615	0.0400 - 0.0830
IRF (%)	36.1	1.4 - 70.8	37.2	3.7 - 70.6	32.4	4.5 - 60.4
RET-He (pg)	22.2	19.1 - 25.3	22.9	19.9 - 25.9	24.1	20.5 - 27.7



XN CHECK™

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

Expiration Date:	2024-09-08		Quality Control Data Due Date #1: 29-Jul-24		Quality Control Data Due Date #2: 08-Sep-24	
Lot Number:	41711101		41711102		41711103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.35	2.23 - 2.47	4.27	4.10 - 4.44	5.03	4.82 - 5.23
HGB (g/dL)	5.66	5.38 - 5.95	11.52	11.06 - 11.98	15.21	14.60 - 15.82
HCT (%)	16.5	15.4 - 17.7	32.7	30.7 - 34.7	42.3	39.7 - 44.8
MCV (fL)	70.3	66.1 - 74.5	76.5	71.9 - 81.1	84.1	79.0 - 89.1
MCH (pg)	24.1	22.2 - 26.0	27.0	25.1 - 28.8	30.3	28.5 - 32.1
MCHC (g/dL)	34.3	30.9 - 37.7	35.2	32.1 - 38.4	36.0	33.1 - 38.9
RDW-SD (fL)	47.7	44.8 - 50.5	46.5	43.7 - 49.3	49.4	45.4 - 53.3
RDW-CV (%)	19.1	18.0 - 20.3	17.3	16.3 - 18.4	16.7	15.4 - 18.0
PLT (10 ³ /μL)	93	58 - 128	242	203 - 281	538	468 - 608
PLT-F (10 ³ /μL)	84	61 - 107	239	175 - 304	510	393 - 628
IPF (%)	19.0	16.5 - 21.4	20.0	16.0 - 24.0	20.3	16.0 - 24.5
IPF#	16.0	13.9 - 18.1	46.6	37.3 - 55.9	102.0	80.5 - 123.4
MPV (fL)	9.9	8.3 - 11.5	10.6	9.7 - 11.4	10.4	9.6 - 11.2
WBC (10 ³ /μL)	3.17	2.85 - 3.48	7.14	6.64 - 7.64	16.78	15.77 - 17.78
NEUT# (10 ³ /μL)	1.23	1.01 - 1.45	3.16	2.72 - 3.60	7.98	6.94 - 9.02
LYMPH# (10 ³ /μL)	1.08	0.79 - 1.37	2.04	1.55 - 2.53	4.31	3.19 - 5.43
MONO# (10 ³ /μL)	0.41	0.18 - 0.64	0.86	0.43 - 1.28	1.76	0.97 - 2.55
EO# (10 ³ /μL)	0.31	0.19 - 0.42	0.74	0.47 - 1.02	1.91	1.19 - 2.64
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.34	0.29 - 0.40	0.81	0.70 - 0.92
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.80	0.65 - 0.95	2.01	1.65 - 2.37
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.43	0.31 - 0.54	1.12	0.89 - 1.34
NEUT%	38.7	33.3 - 44.1	44.3	39.4 - 49.1	47.6	42.8 - 52.3
LYMPH%	34.0	25.5 - 42.5	28.6	22.3 - 34.8	25.7	19.3 - 32.1
MONO%	12.9	5.9 - 19.8	12.0	6.2 - 17.7	10.5	5.9 - 15.1
EO%	9.7	6.1 - 13.2	10.4	6.7 - 14.2	11.4	7.2 - 15.6
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	9.9	8.0 - 11.8	11.2	9.3 - 13.1	12.0	10.1 - 13.9
NRBC% (/100 WBC)	4.8	2.6 - 7.1	6.0	4.3 - 7.7	6.7	5.4 - 7.9
RET%	5.55	4.50 - 6.61	2.24	1.77 - 2.71	1.16	0.73 - 1.58
RET# (10 ⁶ /μL)	0.1304	0.1017 - 0.1591	0.0958	0.0776 - 0.1140	0.0581	0.0407 - 0.0756
IRF (%)	43.7	1.7 - 85.6	42.3	4.2 - 80.3	32.9	4.6 - 61.3
RET-He (pg)	23.7	20.4 - 27.1	24.8	21.6 - 28.0	26.7	22.7 - 30.7