



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:	41701101		41701102		41701103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.34	2.22 - 2.45	4.26	4.09 - 4.43	5.02	4.82 - 5.22
HGB (g/dL)	5.9	5.6 - 6.2	12.1	11.6 - 12.6	15.9	15.3 - 16.6
HCT (%)	17.1	15.9 - 18.3	34.4	32.3 - 36.5	44.3	41.6 - 46.9
MCV (fL)	73.2	68.8 - 77.5	80.7	75.8 - 85.5	88.3	83.0 - 93.6
MCH (pg)	25.2	23.2 - 27.2	28.3	26.4 - 30.3	31.8	29.9 - 33.7
MCHC (g/dL)	34.4	31.0 - 37.9	35.1	32.0 - 38.3	36.0	33.1 - 38.9
RDW-SD (fL)	47.0	44.2 - 49.8	46.7	43.9 - 49.5	47.6	43.8 - 51.4
RDW-CV (%)	18.1	17.0 - 19.2	16.0	15.0 - 16.9	14.9	13.7 - 16.0
PLT (10 ³ /μL)	87	54 - 120	246	207 - 285	531	462 - 600
PLT-F (10 ³ /μL)	80	58 - 102	245	179 - 311	513	395 - 631
IPF (%)	19.1	16.6 - 21.5	19.9	15.9 - 23.8	19.9	15.7 - 24.1
IPF#	15.2	13.3 - 17.2	47.5	38.0 - 57.0	100.7	79.5 - 121.8
MPV (fL)	8.9	7.5 - 10.3	9.2	8.5 - 10.0	9.1	8.4 - 9.9
WBC (10 ³ /μL)	3.02	2.72 - 3.33	7.11	6.61 - 7.61	16.33	15.35 - 17.31
NEUT# (10 ³ /μL)	1.23	1.00 - 1.45	3.19	2.74 - 3.63	7.85	6.83 - 8.87
LYMPH# (10 ³ /μL)	0.98	0.72 - 1.25	1.95	1.49 - 2.42	3.93	2.91 - 4.96
MONO# (10 ³ /μL)	0.38	0.17 - 0.59	0.87	0.43 - 1.30	1.87	1.03 - 2.71
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.76	0.48 - 1.04	1.89	1.17 - 2.60
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.34	0.29 - 0.39	0.79	0.69 - 0.89
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.81	0.65 - 0.96	1.97	1.62 - 2.32
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.45	0.33 - 0.57	1.11	0.89 - 1.33
NEUT%	40.5	34.8 - 46.2	44.8	39.9 - 49.8	48.1	43.3 - 52.9
LYMPH%	32.5	24.4 - 40.6	27.5	21.4 - 33.5	24.1	18.1 - 30.1
MONO%	12.5	5.8 - 19.3	12.2	6.3 - 18.0	11.5	6.4 - 16.5
EO%	9.7	6.1 - 13.2	10.7	6.8 - 14.5	11.6	7.3 - 15.8
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.3	8.4 - 12.3	11.4	9.4 - 13.3	12.1	10.1 - 14.0
NRBC% (/100 WBC)	5.1	2.7 - 7.4	6.3	4.5 - 8.1	6.8	5.5 - 8.1
RET%	6.09	4.93 - 7.25	2.45	1.94 - 2.97	1.27	0.80 - 1.74
RET# (10 ⁶ /μL)	0.1422	0.1109 - 0.1735	0.1045	0.0846 - 0.1243	0.0637	0.0446 - 0.0829
IRF (%)	33.1	1.3 - 65.0	34.6	3.5 - 65.7	28.0	3.9 - 52.0
RET-He (pg)	24.8	21.3 - 28.2	25.6	22.3 - 28.9	27.6	23.5 - 31.8



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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:	41701101		41701102		41701103	
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 - 2.43	4.25	4.08 - 4.41	5.03	4.83 - 5.24
HGB (g/dL)	5.9	5.6 - 6.2	12.1	11.6 - 12.5	15.9	15.3 - 16.6
HCT (%)	17.0	15.8 - 18.2	34.2	32.1 - 36.2	44.3	41.6 - 47.0
MCV (fL)	73.4	69.0 - 77.8	80.5	75.7 - 85.3	88.0	82.7 - 93.3
MCH (pg)	25.3	23.3 - 27.4	28.4	26.4 - 30.4	31.6	29.7 - 33.5
MCHC (g/dL)	34.5	31.1 - 38.0	35.3	32.1 - 38.5	35.9	33.1 - 38.8
RDW-SD (fL)	48.3	45.4 - 51.2	46.8	44.0 - 49.7	47.7	43.9 - 51.6
RDW-CV (%)	18.3	17.2 - 19.4	16.1	15.2 - 17.1	14.9	13.7 - 16.1
PLT (10 ³ /μL)	92	64 - 119	248	213 - 283	539	479 - 598
MPV (fL)	8.7	7.6 - 9.9	9.2	8.5 - 9.9	9.0	8.4 - 9.7
WBC (10 ³ /μL)	3.24	2.82 - 3.66	7.89	7.10 - 8.67	18.12	16.67 - 19.57
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.23	2.78 - 3.68	7.90	6.87 - 8.92
LYMPH# (10 ³ /μL)	1.07	0.78 - 1.36	2.21	1.68 - 2.74	4.41	3.27 - 5.56
MONO# (10 ³ /μL)	0.35	0.16 - 0.55	0.82	0.41 - 1.23	1.84	1.01 - 2.66
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.77	0.48 - 1.05	1.93	1.20 - 2.66
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.43	0.29 - 0.57	1.05	0.73 - 1.36
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.84	0.67 - 1.00	2.04	1.65 - 2.42
NEUT%	39.3	33.8 - 44.8	43.3	38.5 - 48.0	46.1	41.5 - 50.7
LYMPH%	34.5	25.9 - 43.1	29.6	23.1 - 36.2	25.8	19.3 - 32.2
MONO%	11.4	5.2 - 17.6	11.0	5.7 - 16.3	10.7	6.0 - 15.4
EO%	9.6	6.0 - 13.1	10.3	6.6 - 14.0	11.3	7.1 - 15.4
BASO%	5.2	3.4 - 7.1	5.8	4.1 - 7.5	6.1	4.4 - 7.9
IG (%)	10.2	8.1 - 12.4	11.2	9.0 - 13.5	11.9	9.9 - 13.9
RET%	7.41	5.48 - 9.33	2.89	2.14 - 3.64	1.32	0.87 - 1.77
RET# (10 ⁶ /μL)	0.1717	0.1253 - 0.2180	0.1228	0.0921 - 0.1535	0.0666	0.0433 - 0.0900
IRF (%)	27.4	1.1 - 53.7	28.8	2.9 - 54.6	25.3	3.5 - 47.1
RET-He (pg)	23.4	20.1 - 26.7	23.9	20.8 - 27.1	25.3	21.5 - 29.1



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:	41701101		41701102		41701103	
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	2.25 - 2.48	4.30	4.13 - 4.47	5.08	4.87 - 5.28
HGB (g/dL)	5.89	5.59 - 6.18	12.11	11.63 - 12.60	16.03	15.39 - 16.67
HCT (%)	17.1	15.9 - 18.3	34.0	31.9 - 36.0	44.4	41.7 - 47.1
MCV (fL)	72.5	68.2 - 76.9	79.1	74.3 - 83.8	87.5	82.2 - 92.7
MCH (pg)	24.9	22.9 - 26.9	28.2	26.2 - 30.2	31.6	29.7 - 33.5
MCHC (g/dL)	34.3	30.9 - 37.8	35.6	32.4 - 38.8	36.1	33.2 - 39.0
RDW-SD (fL)	46.4	43.6 - 49.2	46.8	44.0 - 49.6	49.9	45.9 - 53.9
RDW-CV (%)	18.2	17.1 - 19.3	16.9	15.8 - 17.9	16.1	14.8 - 17.4
PLT (10 ³ /μL)	90	56 - 124	252	212 - 293	548	477 - 619
PLT-F (10 ³ /μL)	82	60 - 105	251	184 - 319	523	402 - 643
IPF (%)	18.9	16.4 - 21.4	19.9	15.9 - 23.8	20.3	16.0 - 24.6
IPF#	15.6	13.6 - 17.6	48.7	39.0 - 58.4	104.5	82.5 - 126.4
MPV (fL)	9.9	8.3 - 11.5	10.4	9.6 - 11.2	10.2	9.4 - 11.0
WBC (10 ³ /μL)	3.03	2.72 - 3.33	7.08	6.59 - 7.58	16.31	15.33 - 17.29
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.18	2.73 - 3.62	7.79	6.78 - 8.81
LYMPH# (10 ³ /μL)	1.00	0.73 - 1.27	1.95	1.48 - 2.41	4.00	2.96 - 5.04
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.86	0.43 - 1.29	1.86	1.02 - 2.70
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.76	0.48 - 1.04	1.87	1.16 - 2.58
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.34	0.29 - 0.39	0.78	0.68 - 0.88
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.80	0.65 - 0.95	1.96	1.61 - 2.31
NRBC# (10 ³ /μL)	0.16	0.09 - 0.23	0.46	0.33 - 0.58	1.10	0.88 - 1.32
NEUT%	40.3	34.6 - 45.9	44.8	39.9 - 49.8	47.8	43.0 - 52.6
LYMPH%	33.0	24.7 - 41.2	27.5	21.4 - 33.5	24.5	18.4 - 30.7
MONO%	12.3	5.7 - 18.9	12.2	6.3 - 18.0	11.4	6.4 - 16.4
EO%	9.7	6.1 - 13.2	10.7	6.8 - 14.5	11.5	7.2 - 15.7
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	10.3	8.4 - 12.3	11.3	9.4 - 13.3	12.0	10.1 - 13.9
NRBC% (/100 WBC)	5.3	2.8 - 7.7	6.4	4.6 - 8.2	6.8	5.5 - 8.0
RET%	5.65	4.58 - 6.72	2.30	1.81 - 2.78	1.20	0.75 - 1.64
RET# (10 ⁶ /μL)	0.1336	0.1042 - 0.1630	0.0987	0.0799 - 0.1174	0.0607	0.0425 - 0.0790
IRF (%)	34.0	1.4 - 66.6	36.7	3.7 - 69.8	29.0	4.1 - 54.0
RET-He (pg)	24.8	21.4 - 28.3	25.7	22.4 - 29.1	27.9	23.7 - 32.1