



XN CHECK™

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

Expiration Date:	2024-08-11		Quality Control Data Due Date #1: 01-Jul-24		Quality Control Data Due Date #2: 11-Aug-24	
Lot Number:	41411101		41411102		41411103	
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	2.23 - 2.46	4.38	4.20 - 4.55	5.06	4.85 - 5.26
HGB (g/dL)	5.6	5.3 - 5.8	11.9	11.4 - 12.4	15.4	14.8 - 16.0
HCT (%)	16.2	15.1 - 17.4	34.3	32.2 - 36.3	43.2	40.6 - 45.8
MCV (fL)	69.3	65.2 - 73.5	78.3	73.6 - 82.9	85.5	80.4 - 90.7
MCH (pg)	23.7	21.8 - 25.6	27.2	25.3 - 29.1	30.5	28.7 - 32.4
MCHC (g/dL)	34.2	30.8 - 37.6	34.8	31.6 - 37.9	35.7	32.8 - 38.5
RDW-SD (fL)	49.0	46.1 - 51.9	48.2	45.3 - 51.1	47.2	43.4 - 51.0
RDW-CV (%)	19.8	18.6 - 20.9	17.0	16.0 - 18.1	15.1	13.9 - 16.4
PLT (10 ³ /μL)	90	56 - 124	243	204 - 282	554	482 - 626
PLT-F (10 ³ /μL)	85	62 - 108	238	174 - 303	521	401 - 641
IPF (%)	19.2	16.7 - 21.7	20.2	16.1 - 24.2	20.0	15.8 - 24.2
IPF#	16.3	14.2 - 18.5	46.9	37.5 - 56.2	102.4	80.9 - 124.0
MPV (fL)	8.3	6.9 - 9.6	10.0	9.2 - 10.8	9.9	9.1 - 10.7
WBC (10 ³ /μL)	3.14	2.83 - 3.46	6.86	6.38 - 7.34	16.70	15.69 - 17.70
NEUT# (10 ³ /μL)	1.23	1.01 - 1.45	2.97	2.56 - 3.39	7.87	6.85 - 8.90
LYMPH# (10 ³ /μL)	1.05	0.76 - 1.33	2.02	1.53 - 2.50	4.05	3.00 - 5.11
MONO# (10 ³ /μL)	0.42	0.19 - 0.66	0.83	0.41 - 1.24	2.08	1.14 - 3.01
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.71	0.45 - 0.98	1.88	1.17 - 2.60
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.33	0.28 - 0.38	0.80	0.70 - 0.91
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.75	0.61 - 0.90	1.98	1.62 - 2.34
NRBC# (10 ³ /μL)	0.15	0.09 - 0.21	0.45	0.33 - 0.58	1.09	0.87 - 1.30
NEUT%	39.0	33.6 - 44.5	43.3	38.6 - 48.1	47.2	42.4 - 51.9
LYMPH%	33.3	25.0 - 41.6	29.4	22.9 - 35.8	24.3	18.2 - 30.4
MONO%	13.4	6.2 - 20.7	12.1	6.3 - 17.9	12.5	7.0 - 17.9
EO%	9.5	6.0 - 13.0	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	4.2 - 5.4
IG (%)	9.9	8.0 - 11.8	11.0	9.1 - 12.9	11.9	10.0 - 13.7
NRBC% (/100 WBC)	4.7	2.6 - 6.9	6.6	4.8 - 8.5	6.5	5.3 - 7.7
RET%	6.16	4.99 - 7.33	2.51	1.98 - 3.03	1.18	0.74 - 1.62
RET# (10 ⁶ /μL)	0.1444	0.1127 - 0.1762	0.1098	0.0889 - 0.1306	0.0598	0.0418 - 0.0777
IRF (%)	40.3	1.6 - 79.0	40.0	4.0 - 76.0	30.3	4.2 - 56.4
RET-He (pg)	24.4	21.0 - 27.9	25.5	22.2 - 28.8	27.2	23.1 - 31.2



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-08-11		Quality Control Data Due Date #1: 01-Jul-24		Quality Control Data Due Date #2: 11-Aug-24	
Lot Number:	41411101		41411102		41411103	
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	2.22 - 2.45	4.38	4.21 - 4.56	5.07	4.87 - 5.27
HGB (g/dL)	5.6	5.3 - 5.8	11.9	11.4 - 12.4	15.4	14.8 - 16.0
HCT (%)	16.2	15.1 - 17.3	34.2	32.2 - 36.3	43.2	40.6 - 45.8
MCV (fL)	69.4	65.3 - 73.6	78.0	73.4 - 82.7	85.3	80.1 - 90.4
MCH (pg)	23.8	21.9 - 25.7	27.2	25.3 - 29.1	30.4	28.6 - 32.2
MCHC (g/dL)	34.3	30.9 - 37.8	34.8	31.7 - 38.0	35.6	32.8 - 38.5
RDW-SD (fL)	50.3	47.2 - 53.3	48.5	45.6 - 51.4	46.9	43.1 - 50.6
RDW-CV (%)	20.0	18.8 - 21.2	17.2	16.2 - 18.3	15.2	14.0 - 16.4
PLT (10 ³ /μL)	90	63 - 117	246	212 - 280	555	494 - 616
MPV (fL)	8.3	7.2 - 9.4	10.0	9.2 - 10.8	9.8	9.1 - 10.5
WBC (10 ³ /μL)	3.37	2.93 - 3.80	7.56	6.81 - 8.32	18.44	16.96 - 19.91
NEUT# (10 ³ /μL)	1.21	1.00 - 1.43	2.99	2.57 - 3.40	7.80	6.79 - 8.82
LYMPH# (10 ³ /μL)	1.18	0.86 - 1.50	2.22	1.69 - 2.76	4.54	3.36 - 5.72
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.80	0.40 - 1.20	2.03	1.11 - 2.94
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.73	0.46 - 1.00	2.02	1.25 - 2.79
BASO# (10 ³ /μL)	0.17	0.10 - 0.23	0.41	0.28 - 0.54	1.07	0.75 - 1.39
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.78	0.62 - 0.93	2.03	1.64 - 2.41
NEUT%	37.6	32.3 - 42.9	41.8	37.2 - 46.4	44.7	40.2 - 49.2
LYMPH%	36.5	27.3 - 45.6	31.2	24.3 - 38.0	26.0	19.5 - 32.5
MONO%	11.6	5.3 - 17.8	11.2	5.8 - 16.5	11.6	6.5 - 16.7
EO%	9.2	5.8 - 12.6	10.2	6.5 - 13.8	11.6	7.3 - 15.9
BASO%	5.2	3.3 - 7.0	5.7	4.0 - 7.4	6.1	4.3 - 7.9
IG (%)	9.8	7.7 - 11.9	10.9	8.7 - 13.0	11.6	9.6 - 13.6
RET%	7.53	5.57 - 9.49	2.92	2.16 - 3.68	1.21	0.80 - 1.62
RET# (10 ⁶ /μL)	0.1758	0.1283 - 0.2232	0.1280	0.0960 - 0.1600	0.0613	0.0398 - 0.0827
IRF (%)	35.7	1.4 - 70.0	36.1	3.6 - 68.5	30.3	4.2 - 56.4
RET-He (pg)	23.3	20.1 - 26.6	24.1	20.9 - 27.2	25.1	21.4 - 28.9



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

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Lot Number:	41411101		41411102		41411103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.38	2.26 - 2.50	4.43	4.25 - 4.60	5.11	4.91 - 5.32
HGB (g/dL)	5.53	5.25 - 5.81	11.96	11.48 - 12.44	15.48	14.86 - 16.10
HCT (%)	16.3	15.2 - 17.5	33.7	31.7 - 35.7	42.8	40.2 - 45.4
MCV (fL)	68.7	64.6 - 72.9	76.1	71.6 - 80.7	83.7	78.7 - 88.7
MCH (pg)	23.3	21.4 - 25.1	27.0	25.1 - 28.9	30.3	28.5 - 32.1
MCHC (g/dL)	33.8	30.4 - 37.2	35.5	32.3 - 38.7	36.2	33.3 - 39.1
RDW-SD (fL)	47.5	44.6 - 50.3	47.5	44.6 - 50.3	47.1	43.3 - 50.8
RDW-CV (%)	19.7	18.5 - 20.9	17.8	16.7 - 18.9	16.0	14.7 - 17.3
PLT (10 ³ /μL)	96	60 - 133	248	209 - 288	564	490 - 637
PLT-F (10 ³ /μL)	87	64 - 111	245	179 - 311	533	411 - 656
IPF (%)	19.1	16.6 - 21.5	19.9	15.9 - 23.9	20.1	15.8 - 24.3
IPF#	16.6	14.4 - 18.8	47.6	38.1 - 57.1	105.4	83.3 - 127.5
MPV (fL)	9.3	7.8 - 10.8	11.2	10.3 - 12.1	11.0	10.2 - 11.9
WBC (10 ³ /μL)	3.17	2.85 - 3.48	6.87	6.39 - 7.35	16.68	15.68 - 17.68
NEUT# (10 ³ /μL)	1.23	1.01 - 1.46	2.98	2.56 - 3.39	7.80	6.79 - 8.82
LYMPH# (10 ³ /μL)	1.08	0.79 - 1.37	2.03	1.54 - 2.52	4.09	3.03 - 5.15
MONO# (10 ³ /μL)	0.41	0.18 - 0.63	0.83	0.42 - 1.25	2.07	1.14 - 3.01
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.69	0.44 - 0.95	1.91	1.19 - 2.64
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.33	0.28 - 0.38	0.80	0.70 - 0.90
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.76	0.61 - 0.90	1.97	1.62 - 2.33
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.46	0.33 - 0.58	1.10	0.88 - 1.31
NEUT%	38.9	33.5 - 44.4	43.3	38.6 - 48.1	46.8	42.1 - 51.5
LYMPH%	34.1	25.6 - 42.7	29.6	23.1 - 36.1	24.5	18.4 - 30.7
MONO%	12.8	5.9 - 19.7	12.2	6.3 - 18.0	12.4	7.0 - 17.9
EO%	9.4	5.9 - 12.8	10.1	6.5 - 13.7	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 (%)	9.9	8.0 - 11.8	11.0	9.2 - 12.9	11.8	9.9 - 13.7
NRBC% (/100 WBC)	4.8	2.6 - 7.1	6.6	4.8 - 8.5	6.6	5.3 - 7.8
RET%	5.73	4.64 - 6.82	2.37	1.87 - 2.87	1.12	0.70 - 1.53
RET# (10 ⁶ /μL)	0.1364	0.1064 - 0.1664	0.1049	0.0850 - 0.1248	0.0571	0.0400 - 0.0743
IRF (%)	41.0	1.6 - 80.4	40.9	4.1 - 77.7	30.8	4.3 - 57.3
RET-He (pg)	24.6	21.1 - 28.0	25.7	22.3 - 29.0	27.3	23.2 - 31.4