



XN CHECK™

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

Expiration Date:	2024-11-03		Quality Control Data Due Date #1: 23-Sep-24		Quality Control Data Due Date #2: 03-Nov-24	
Lot Number:	42261101		42261102		42261103	
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	2.18 - 2.41	4.31	4.14 - 4.48	5.11	4.90 - 5.31
HGB (g/dL)	5.7	5.4 - 5.9	11.5	11.1 - 12.0	15.3	14.7 - 15.9
HCT (%)	16.5	15.4 - 17.7	33.3	31.3 - 35.3	42.9	40.3 - 45.5
MCV (fL)	72.0	67.7 - 76.3	77.2	72.6 - 81.8	84.0	78.9 - 89.0
MCH (pg)	24.6	22.6 - 26.6	26.8	24.9 - 28.6	30.0	28.2 - 31.8
MCHC (g/dL)	34.2	30.7 - 37.6	34.7	31.6 - 37.8	35.7	32.9 - 38.6
RDW-SD (fL)	46.9	44.1 - 49.8	47.5	44.7 - 50.4	48.5	44.6 - 52.4
RDW-CV (%)	18.2	17.1 - 19.3	17.1	16.1 - 18.1	15.9	14.6 - 17.1
PLT (10 ³ /μL)	100	62 - 138	237	199 - 275	529	460 - 598
PLT-F (10 ³ /μL)	90	66 - 115	227	166 - 289	496	382 - 610
IPF (%)	18.9	16.4 - 21.4	19.8	15.8 - 23.8	20.0	15.8 - 24.2
IPF#	17.1	14.8 - 19.3	43.9	35.2 - 52.7	97.7	77.2 - 118.3
MPV (fL)	8.8	7.4 - 10.2	10.1	9.3 - 10.9	9.9	9.1 - 10.7
WBC (10 ³ /μL)	3.15	2.74 - 3.56	6.82	6.14 - 7.50	16.27	14.80 - 17.73
NEUT# (10 ³ /μL)	1.24	1.02 - 1.47	2.94	2.53 - 3.35	7.79	6.78 - 8.80
LYMPH# (10 ³ /μL)	1.07	0.78 - 1.37	2.02	1.54 - 2.51	3.93	2.91 - 4.95
MONO# (10 ³ /μL)	0.38	0.17 - 0.59	0.82	0.41 - 1.22	1.89	1.04 - 2.75
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.71	0.45 - 0.98	1.87	1.16 - 2.58
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.33	0.28 - 0.38	0.78	0.68 - 0.89
IG # (10 ³ /μL)	0.32	0.25 - 0.38	0.74	0.60 - 0.88	1.95	1.60 - 2.30
NRBC# (10 ³ /μL)	0.14	0.08 - 0.21	0.43	0.32 - 0.55	1.05	0.84 - 1.26
NEUT%	39.5	34.0 - 45.0	43.1	38.4 - 47.8	47.9	43.1 - 52.7
LYMPH%	34.2	25.6 - 42.7	29.7	23.1 - 36.2	24.2	18.1 - 30.2
MONO%	12.1	5.6 - 18.7	12.0	6.2 - 17.7	11.6	6.5 - 16.8
EO%	9.5	6.0 - 13.0	10.5	6.7 - 14.2	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 (%)	10.1	8.2 - 12.0	10.9	9.0 - 12.8	12.0	10.1 - 13.9
NRBC% (/100 WBC)	4.6	2.5 - 6.7	6.3	4.6 - 8.1	6.5	5.2 - 7.7
RET%	5.76	4.67 - 6.85	2.22	1.75 - 2.68	1.47	0.93 - 2.02
RET# (10 ⁶ /μL)	0.1323	0.1032 - 0.1614	0.0955	0.0774 - 0.1137	0.0753	0.0527 - 0.0979
IRF (%)	33.0	1.3 - 64.8	35.7	3.6 - 67.9	31.6	4.4 - 58.7
RET-He (pg)	24.8	21.4 - 28.3	25.7	22.4 - 29.1	26.8	22.8 - 30.9



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-11-03		Quality Control Data Due Date #1: 23-Sep-24		Quality Control Data Due Date #2: 03-Nov-24	
Lot Number:	42261101		42261102		42261103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.28	2.17 - 2.40	4.31	4.14 - 4.49	5.14	4.93 - 5.34
HGB (g/dL)	5.7	5.4 - 5.9	11.6	11.1 - 12.1	15.4	14.8 - 16.0
HCT (%)	16.5	15.4 - 17.7	33.3	31.3 - 35.3	43.2	40.6 - 45.7
MCV (fL)	72.4	68.1 - 76.7	77.1	72.5 - 81.8	84.0	79.0 - 89.1
MCH (pg)	24.8	22.8 - 26.8	26.9	25.0 - 28.8	29.9	28.1 - 31.7
MCHC (g/dL)	34.2	30.8 - 37.7	34.9	31.7 - 38.0	35.6	32.8 - 38.5
RDW-SD (fL)	47.5	44.7 - 50.4	48.0	45.1 - 50.9	48.2	44.4 - 52.1
RDW-CV (%)	18.4	17.3 - 19.5	17.3	16.3 - 18.4	15.9	14.7 - 17.2
PLT (10 ³ /μL)	101	71 - 131	239	206 - 273	534	475 - 593
MPV (fL)	8.8	7.7 - 9.9	10.0	9.2 - 10.8	9.8	9.1 - 10.5
WBC (10 ³ /μL)	3.39	2.85 - 3.94	7.53	6.56 - 8.51	17.99	16.01 - 19.96
NEUT# (10 ³ /μL)	1.24	1.02 - 1.47	2.97	2.55 - 3.39	7.84	6.82 - 8.86
LYMPH# (10 ³ /μL)	1.18	0.86 - 1.50	2.26	1.71 - 2.80	4.44	3.29 - 5.59
MONO# (10 ³ /μL)	0.35	0.16 - 0.55	0.78	0.39 - 1.17	1.81	1.00 - 2.62
EO# (10 ³ /μL)	0.31	0.19 - 0.43	0.74	0.47 - 1.01	1.88	1.17 - 2.60
BASO# (10 ³ /μL)	0.17	0.10 - 0.23	0.40	0.27 - 0.53	1.07	0.75 - 1.39
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.77	0.62 - 0.93	2.02	1.64 - 2.41
NEUT%	38.1	32.8 - 43.5	41.6	37.0 - 46.1	46.0	41.4 - 50.6
LYMPH%	36.3	27.2 - 45.3	31.6	24.6 - 38.5	26.1	19.5 - 32.6
MONO%	10.8	5.0 - 16.7	10.9	5.7 - 16.1	10.6	5.9 - 15.3
EO%	9.6	6.0 - 13.2	10.3	6.6 - 14.1	11.0	7.0 - 15.1
BASO%	5.2	3.4 - 7.0	5.6	3.9 - 7.3	6.3	4.4 - 8.1
IG (%)	9.9	7.8 - 12.0	10.8	8.7 - 13.0	11.9	9.8 - 13.9
RET%	6.94	5.14 - 8.75	2.55	1.88 - 3.21	1.57	1.03 - 2.10
RET# (10 ⁶ /μL)	0.1585	0.1157 - 0.2013	0.1098	0.0823 - 0.1372	0.0805	0.0523 - 0.1086
IRF (%)	27.3	1.1 - 53.4	30.8	3.1 - 58.5	29.4	4.1 - 54.7
RET-He (pg)	23.5	20.2 - 26.7	24.0	20.9 - 27.1	24.7	21.0 - 28.4



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

Expiration Date:	2024-11-03		Quality Control Data Due Date #1: 23-Sep-24		Quality Control Data Due Date #2: 03-Nov-24	
Lot Number:	42261101		42261102		42261103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.34	2.22 - 2.45	4.37	4.20 - 4.55	5.20	4.99 - 5.41
HGB (g/dL)	5.63	5.35 - 5.91	11.56	11.10 - 12.02	15.43	14.81 - 16.05
HCT (%)	16.6	15.5 - 17.8	32.9	30.9 - 34.9	43.1	40.5 - 45.7
MCV (fL)	71.2	66.9 - 75.5	75.3	70.7 - 79.8	82.9	77.9 - 87.8
MCH (pg)	24.1	22.2 - 26.0	26.4	24.6 - 28.3	29.7	27.9 - 31.4
MCHC (g/dL)	33.8	30.4 - 37.2	35.1	32.0 - 38.3	35.8	32.9 - 38.7
RDW-SD (fL)	46.6	43.8 - 49.4	47.0	44.2 - 49.8	49.2	45.3 - 53.2
RDW-CV (%)	18.5	17.4 - 19.6	17.7	16.7 - 18.8	16.9	15.5 - 18.2
PLT (10 ³ /μL)	105	65 - 145	241	203 - 280	541	471 - 611
PLT-F (10 ³ /μL)	92	67 - 117	235	172 - 299	508	391 - 625
IPF (%)	19.1	16.6 - 21.6	20.1	16.1 - 24.1	20.1	15.9 - 24.4
IPF#	17.5	15.3 - 19.8	46.2	36.9 - 55.4	100.8	79.6 - 121.9
MPV (fL)	9.9	8.3 - 11.5	11.3	10.4 - 12.2	11.1	10.2 - 12.0
WBC (10 ³ /μL)	3.18	2.77 - 3.60	6.80	6.12 - 7.48	16.26	14.80 - 17.73
NEUT# (10 ³ /μL)	1.26	1.03 - 1.49	2.93	2.52 - 3.35	7.75	6.74 - 8.76
LYMPH# (10 ³ /μL)	1.10	0.80 - 1.39	2.03	1.55 - 2.52	3.92	2.90 - 4.94
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.81	0.40 - 1.21	1.93	1.06 - 2.79
EO# (10 ³ /μL)	0.30	0.19 - 0.41	0.70	0.44 - 0.96	1.88	1.17 - 2.60
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.32	0.27 - 0.38	0.78	0.68 - 0.89
IG # (10 ³ /μL)	0.32	0.25 - 0.39	0.75	0.60 - 0.89	1.93	1.58 - 2.28
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.43	0.31 - 0.55	1.06	0.85 - 1.27
NEUT%	39.5	34.0 - 45.1	43.2	38.4 - 47.9	47.7	42.9 - 52.4
LYMPH%	34.5	25.9 - 43.1	29.9	23.3 - 36.5	24.1	18.1 - 30.1
MONO%	11.8	5.4 - 18.1	11.9	6.2 - 17.5	11.9	6.6 - 17.1
EO%	9.4	5.9 - 12.9	10.3	6.6 - 14.0	11.6	7.3 - 15.9
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	11.0	9.1 - 12.8	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.6	2.5 - 6.7	6.3	4.6 - 8.1	6.5	5.3 - 7.7
RET%	5.35	4.33 - 6.37	2.08	1.64 - 2.51	1.37	0.86 - 1.88
RET# (10 ⁶ /μL)	0.1251	0.0976 - 0.1526	0.0908	0.0736 - 0.1081	0.0712	0.0499 - 0.0926
IRF (%)	35.0	1.4 - 68.5	37.3	3.7 - 70.9	32.0	4.5 - 59.5
RET-He (pg)	25.0	21.5 - 28.5	25.8	22.5 - 29.2	27.0	23.0 - 31.1