



XN CHECK™

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

Expiration Date:	2024-04-21		Quality Control Data Due Date #1: 11-Mar-24		Quality Control Data Due Date #2: 21-Apr-24	
Lot Number:	40321101		40321102		40321103	
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	4.25	4.08 - 4.42	5.06	4.86 - 5.26
HGB (g/dL)	5.7	5.4 - 5.9	11.8	11.3 - 12.2	16.1	15.4 - 16.7
HCT (%)	16.5	15.4 - 17.7	33.8	31.8 - 35.8	44.8	42.2 - 47.5
MCV (fL)	71.9	67.6 - 76.2	79.5	74.7 - 84.3	88.6	83.3 - 93.9
MCH (pg)	24.6	22.7 - 26.6	27.7	25.7 - 29.6	31.8	29.9 - 33.7
MCHC (g/dL)	34.3	30.8 - 37.7	34.8	31.7 - 38.0	35.9	33.0 - 38.7
RDW-SD (fL)	47.3	44.5 - 50.2	48.5	45.6 - 51.4	45.8	42.2 - 49.5
RDW-CV (%)	18.4	17.3 - 19.5	16.9	15.9 - 18.0	14.1	13.0 - 15.3
PLT (10 ³ /μL)	93	58 - 128	239	201 - 278	551	479 - 622
PLT-F (10 ³ /μL)	88	64 - 111	235	171 - 298	525	404 - 646
IPF (%)	19.0	16.5 - 21.5	19.7	15.8 - 23.7	19.8	15.6 - 24.0
IPF#	16.6	14.5 - 18.8	45.2	36.1 - 54.2	102.5	80.9 - 124.0
MPV (fL)	8.2	6.8 - 9.5	10.1	9.3 - 10.9	9.9	9.1 - 10.7
WBC (10 ³ /μL)	3.06	2.75 - 3.36	6.83	6.35 - 7.31	16.49	15.50 - 17.48
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.01	2.59 - 3.43	7.82	6.80 - 8.84
LYMPH# (10 ³ /μL)	1.05	0.76 - 1.33	1.99	1.51 - 2.47	3.97	2.94 - 5.01
MONO# (10 ³ /μL)	0.35	0.15 - 0.54	0.77	0.39 - 1.16	2.04	1.12 - 2.96
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.73	0.46 - 1.00	1.85	1.15 - 2.56
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.27 - 0.38	0.80	0.69 - 0.90
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.76	0.61 - 0.90	1.97	1.61 - 2.32
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.43	0.31 - 0.54	1.13	0.90 - 1.35
NEUT%	39.9	34.3 - 45.5	44.1	39.2 - 48.9	47.4	42.7 - 52.2
LYMPH%	34.2	25.6 - 42.7	29.1	22.7 - 35.6	24.1	18.1 - 30.1
MONO%	11.4	5.3 - 17.6	11.3	5.9 - 16.7	12.4	6.9 - 17.8
EO%	9.7	6.1 - 13.3	10.7	6.8 - 14.5	11.2	7.1 - 15.4
BASO%	4.8	3.8 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.2	8.3 - 12.2	11.1	9.2 - 13.0	11.9	10.0 - 13.8
NRBC% (/100 WBC)	5.0	2.7 - 7.3	6.2	4.5 - 8.0	6.8	5.5 - 8.1
RET%	5.68	4.60 - 6.76	2.33	1.84 - 2.82	1.20	0.75 - 1.64
RET# (10 ⁶ /μL)	0.1306	0.1019 - 0.1594	0.0991	0.0803 - 0.1179	0.0606	0.0424 - 0.0787
IRF (%)	26.6	1.1 - 52.1	27.5	2.7 - 52.2	23.0	3.2 - 42.8
RET-He (pg)	25.4	21.9 - 29.0	26.5	23.0 - 29.9	27.9	23.7 - 32.1



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-04-21		Quality Control Data Due Date #1: 11-Mar-24		Quality Control Data Due Date #2: 21-Apr-24	
Lot Number:	40321101		40321102		40321103	
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	4.26	4.09 - 4.43	5.09	4.88 - 5.29
HGB (g/dL)	5.7	5.4 - 6.0	11.8	11.4 - 12.3	16.1	15.5 - 16.8
HCT (%)	16.6	15.4 - 17.7	33.8	31.8 - 35.8	45.0	42.3 - 47.7
MCV (fL)	72.2	67.8 - 76.5	79.3	74.6 - 84.1	88.5	83.2 - 93.8
MCH (pg)	24.9	22.9 - 26.9	27.8	25.8 - 29.7	31.7	29.8 - 33.6
MCHC (g/dL)	34.5	31.0 - 37.9	35.0	31.9 - 38.2	35.9	33.0 - 38.7
RDW-SD (fL)	48.2	45.3 - 51.0	48.6	45.6 - 51.5	45.7	42.1 - 49.4
RDW-CV (%)	18.6	17.5 - 19.7	17.1	16.1 - 18.1	14.2	13.0 - 15.3
PLT (10 ³ /μL)	94	66 - 122	240	206 - 273	550	489 - 610
MPV (fL)	8.2	7.1 - 9.2	10.0	9.2 - 10.8	9.8	9.1 - 10.5
WBC (10 ³ /μL)	3.32	2.88 - 3.75	7.56	6.80 - 8.31	18.34	16.87 - 19.80
NEUT# (10 ³ /μL)	1.24	1.01 - 1.46	3.03	2.61 - 3.46	7.84	6.82 - 8.86
LYMPH# (10 ³ /μL)	1.14	0.83 - 1.45	2.21	1.68 - 2.74	4.46	3.30 - 5.63
MONO# (10 ³ /μL)	0.33	0.14 - 0.51	0.74	0.37 - 1.11	2.00	1.10 - 2.89
EO# (10 ³ /μL)	0.30	0.19 - 0.41	0.76	0.48 - 1.04	1.95	1.21 - 2.70
BASO# (10 ³ /μL)	0.17	0.10 - 0.23	0.41	0.28 - 0.55	1.05	0.74 - 1.37
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.79	0.63 - 0.95	2.05	1.66 - 2.43
NEUT%	39.0	33.5 - 44.4	42.3	37.7 - 47.0	45.3	40.8 - 49.8
LYMPH%	36.0	27.0 - 45.0	30.9	24.1 - 37.7	25.8	19.3 - 32.2
MONO%	10.3	4.7 - 15.8	10.4	5.4 - 15.4	11.5	6.5 - 16.6
EO%	9.4	5.9 - 12.9	10.6	6.8 - 14.4	11.3	7.1 - 15.5
BASO%	5.3	3.5 - 7.2	5.8	4.0 - 7.5	6.1	4.3 - 7.9
IG (%)	10.2	8.0 - 12.3	11.0	8.8 - 13.2	11.8	9.8 - 13.8
RET%	6.81	5.04 - 8.58	2.67	1.97 - 3.36	1.24	0.82 - 1.66
RET# (10 ⁶ /μL)	0.1562	0.1140 - 0.1984	0.1136	0.0852 - 0.1420	0.0630	0.0410 - 0.0851
IRF (%)	21.8	0.9 - 42.7	23.3	2.3 - 44.3	20.1	2.8 - 37.4
RET-He (pg)	24.1	20.8 - 27.5	25.0	21.7 - 28.2	25.8	21.9 - 29.7



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

Expiration Date:	2024-04-21		Quality Control Data Due Date #1: 11-Mar-24		Quality Control Data Due Date #2: 21-Apr-24	
Lot Number:	40321101		40321102		40321103	
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 - 2.46	4.30	4.13 - 4.47	5.12	4.91 - 5.32
HGB (g/dL)	5.66	5.37 - 5.94	11.78	11.31 - 12.25	16.15	15.51 - 16.80
HCT (%)	16.7	15.6 - 17.9	33.7	31.7 - 35.8	44.8	42.1 - 47.5
MCV (fL)	71.4	67.2 - 75.7	78.5	73.8 - 83.2	87.5	82.2 - 92.7
MCH (pg)	24.2	22.2 - 26.1	27.4	25.5 - 29.3	31.6	29.7 - 33.4
MCHC (g/dL)	33.8	30.4 - 37.2	34.9	31.8 - 38.1	36.1	33.2 - 39.0
RDW-SD (fL)	46.8	44.0 - 49.6	48.4	45.5 - 51.3	47.1	43.4 - 50.9
RDW-CV (%)	18.5	17.4 - 19.6	17.6	16.5 - 18.6	15.2	14.0 - 16.4
PLT (10 ³ /μL)	98	60 - 135	242	203 - 280	554	482 - 626
PLT-F (10 ³ /μL)	89	65 - 113	240	175 - 305	537	414 - 661
IPF (%)	19.0	16.5 - 21.5	20.1	16.1 - 24.2	20.1	15.9 - 24.3
IPF#	16.9	14.7 - 19.1	47.2	37.7 - 56.6	106.4	84.0 - 128.7
MPV (fL)	9.1	7.7 - 10.6	11.3	10.4 - 12.2	11.1	10.2 - 12.0
WBC (10 ³ /μL)	3.08	2.77 - 3.38	6.88	6.40 - 7.36	16.44	15.45 - 17.43
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.02	2.60 - 3.45	7.78	6.77 - 8.79
LYMPH# (10 ³ /μL)	1.06	0.77 - 1.35	2.01	1.53 - 2.50	3.96	2.93 - 4.99
MONO# (10 ³ /μL)	0.35	0.15 - 0.55	0.80	0.40 - 1.19	2.06	1.13 - 2.98
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.72	0.45 - 0.98	1.85	1.15 - 2.55
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.79	0.69 - 0.90
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.76	0.62 - 0.91	1.96	1.60 - 2.31
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.42	0.31 - 0.53	1.12	0.90 - 1.35
NEUT%	39.8	34.2 - 45.3	43.9	39.1 - 48.8	47.3	42.6 - 52.0
LYMPH%	34.5	25.8 - 43.1	29.3	22.8 - 35.7	24.1	18.1 - 30.1
MONO%	11.4	5.2 - 17.6	11.6	6.0 - 17.1	12.5	7.0 - 18.0
EO%	9.6	6.1 - 13.2	10.4	6.7 - 14.2	11.2	7.1 - 15.4
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.2	8.2 - 12.1	11.1	9.2 - 13.0	11.9	10.0 - 13.8
NRBC% (/100 WBC)	5.0	2.7 - 7.3	6.1	4.4 - 7.8	6.8	5.5 - 8.1
RET%	5.41	4.38 - 6.44	2.22	1.75 - 2.68	1.16	0.73 - 1.58
RET# (10 ⁶ /μL)	0.1266	0.0987 - 0.1544	0.0952	0.0771 - 0.1133	0.0592	0.0414 - 0.0769
IRF (%)	27.8	1.1 - 54.5	28.6	2.9 - 54.3	23.1	3.2 - 43.1
RET-He (pg)	25.2	21.7 - 28.8	26.3	22.9 - 29.7	27.7	23.6 - 31.9