



XN CHECK™

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

Expiration Date:	2024-05-19		Quality Control Data Due Date #1: 08-Apr-24		Quality Control Data Due Date #2: 19-May-24	
Lot Number:	40591101		40591102		40591103	
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	4.40	4.22 - 4.57	5.09	4.88 - 5.29
HGB (g/dL)	5.4	5.2 - 5.7	12.6	12.1 - 13.1	15.8	15.1 - 16.4
HCT (%)	16.0	14.9 - 17.1	36.0	33.9 - 38.2	44.2	41.5 - 46.8
MCV (fL)	68.5	64.4 - 72.6	82.0	77.1 - 86.9	86.8	81.6 - 92.0
MCH (pg)	23.3	21.4 - 25.1	28.6	26.6 - 30.6	31.0	29.2 - 32.9
MCHC (g/dL)	34.0	30.6 - 37.4	34.8	31.7 - 38.0	35.7	32.9 - 38.6
RDW-SD (fL)	46.7	43.9 - 49.5	47.0	44.2 - 49.9	47.9	44.1 - 51.8
RDW-CV (%)	19.2	18.1 - 20.4	15.9	14.9 - 16.8	15.2	14.0 - 16.4
PLT (10 ³ /μL)	88	54 - 121	236	198 - 274	557	484 - 629
PLT-F (10 ³ /μL)	82	60 - 104	237	173 - 301	529	408 - 651
IPF (%)	19.0	16.5 - 21.4	20.1	16.1 - 24.1	19.9	15.7 - 24.0
IPF#	15.5	13.5 - 17.6	46.5	37.2 - 55.8	103.6	81.9 - 125.4
MPV (fL)	8.2	6.9 - 9.5	9.9	9.1 - 10.7	9.8	9.0 - 10.5
WBC (10 ³ /μL)	3.03	2.72 - 3.33	6.79	6.31 - 7.26	16.83	15.82 - 17.84
NEUT# (10 ³ /μL)	1.18	0.97 - 1.39	2.99	2.57 - 3.40	8.09	7.04 - 9.15
LYMPH# (10 ³ /μL)	1.09	0.80 - 1.39	1.97	1.50 - 2.44	4.01	2.97 - 5.05
MONO# (10 ³ /μL)	0.32	0.14 - 0.49	0.79	0.40 - 1.19	2.01	1.10 - 2.91
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.71	0.45 - 0.97	1.91	1.19 - 2.64
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.38	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.30	0.24 - 0.37	0.76	0.61 - 0.90	2.03	1.67 - 2.40
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.44	0.32 - 0.56	1.15	0.92 - 1.38
NEUT%	39.0	33.6 - 44.5	44.0	39.2 - 48.8	48.1	43.3 - 52.9
LYMPH%	36.1	27.1 - 45.1	29.0	22.7 - 35.4	23.8	17.9 - 29.8
MONO%	10.4	4.8 - 16.1	11.7	6.1 - 17.3	11.9	6.7 - 17.2
EO%	9.6	6.0 - 13.1	10.5	6.7 - 14.2	11.4	7.2 - 15.6
BASO%	4.8	3.9 - 5.8	4.8	4.2 - 5.5	4.8	4.2 - 5.4
IG (%)	10.0	8.1 - 11.9	11.2	9.3 - 13.1	12.1	10.1 - 14.0
NRBC% (/100 WBC)	4.6	2.5 - 6.8	6.5	4.7 - 8.3	6.8	5.5 - 8.1
RET%	5.79	4.69 - 6.89	2.36	1.87 - 2.86	1.22	0.77 - 1.68
RET# (10 ⁶ /μL)	0.1354	0.1056 - 0.1652	0.1038	0.0841 - 0.1235	0.0622	0.0435 - 0.0808
IRF (%)	35.3	1.4 - 69.3	35.6	3.6 - 67.6	28.8	4.0 - 53.5
RET-He (pg)	24.6	21.2 - 28.1	25.8	22.4 - 29.2	27.3	23.2 - 31.4



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-05-19		Quality Control Data Due Date #1: 08-Apr-24		Quality Control Data Due Date #2: 19-May-24	
Lot Number:	40591101		40591102		40591103	
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	4.42	4.24 - 4.60	5.11	4.91 - 5.32
HGB (g/dL)	5.5	5.2 - 5.7	12.6	12.1 - 13.1	15.8	15.1 - 16.4
HCT (%)	15.9	14.8 - 17.1	36.2	34.0 - 38.4	44.2	41.5 - 46.8
MCV (fL)	68.5	64.4 - 72.6	81.9	76.9 - 86.8	86.4	81.2 - 91.6
MCH (pg)	23.5	21.6 - 25.3	28.5	26.5 - 30.5	30.8	29.0 - 32.7
MCHC (g/dL)	34.2	30.8 - 37.7	34.8	31.7 - 37.9	35.7	32.8 - 38.5
RDW-SD (fL)	48.0	45.1 - 50.9	47.3	44.5 - 50.2	48.0	44.1 - 51.8
RDW-CV (%)	19.5	18.3 - 20.6	15.9	15.0 - 16.9	15.3	14.1 - 16.5
PLT (10 ³ /μL)	88	61 - 114	237	204 - 271	554	493 - 615
MPV (fL)	8.1	7.1 - 9.2	9.8	9.0 - 10.6	9.6	9.0 - 10.3
WBC (10 ³ /μL)	3.26	2.84 - 3.68	7.56	6.81 - 8.32	18.69	17.19 - 20.19
NEUT# (10 ³ /μL)	1.19	0.97 - 1.40	3.03	2.60 - 3.45	8.13	7.07 - 9.19
LYMPH# (10 ³ /μL)	1.18	0.86 - 1.49	2.21	1.68 - 2.74	4.47	3.31 - 5.63
MONO# (10 ³ /μL)	0.31	0.14 - 0.48	0.76	0.38 - 1.14	1.97	1.08 - 2.85
EO# (10 ³ /μL)	0.29	0.18 - 0.41	0.72	0.46 - 0.99	1.96	1.22 - 2.71
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.42	0.28 - 0.55	1.10	0.77 - 1.43
IG # (10 ³ /μL)	0.31	0.23 - 0.38	0.78	0.63 - 0.94	2.11	1.71 - 2.51
NEUT%	38.0	32.7 - 43.3	42.4	37.7 - 47.1	46.1	41.5 - 50.7
LYMPH%	37.6	28.2 - 47.0	31.0	24.2 - 37.8	25.4	19.0 - 31.7
MONO%	9.9	4.5 - 15.2	10.6	5.5 - 15.7	11.2	6.2 - 16.1
EO%	9.4	5.9 - 12.9	10.1	6.5 - 13.8	11.1	7.0 - 15.3
BASO%	5.1	3.3 - 6.9	5.8	4.1 - 7.6	6.2	4.4 - 8.0
IG (%)	9.8	7.8 - 11.9	11.0	8.8 - 13.2	12.0	9.9 - 14.0
RET%	7.18	5.31 - 9.04	2.79	2.07 - 3.52	1.29	0.85 - 1.73
RET# (10 ⁶ /μL)	0.1671	0.1220 - 0.2122	0.1235	0.0926 - 0.1543	0.0659	0.0428 - 0.0889
IRF (%)	31.4	1.3 - 61.6	31.6	3.2 - 60.0	28.4	4.0 - 52.8
RET-He (pg)	23.8	20.5 - 27.1	24.6	21.4 - 27.8	25.6	21.7 - 29.4



XN CHECK™

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

Expiration Date:	2024-05-19		Quality Control Data Due Date #1: 08-Apr-24		Quality Control Data Due Date #2: 19-May-24	
Lot Number:	40591101		40591102		40591103	
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	4.44	4.26 - 4.62	5.15	4.95 - 5.36
HGB (g/dL)	5.43	5.16 - 5.70	12.55	12.05 - 13.05	15.80	15.17 - 16.43
HCT (%)	16.3	15.1 - 17.4	35.6	33.4 - 37.7	44.0	41.4 - 46.7
MCV (fL)	68.4	64.3 - 72.5	80.1	75.3 - 84.9	85.5	80.3 - 90.6
MCH (pg)	22.8	21.0 - 24.6	28.3	26.3 - 30.2	30.7	28.8 - 32.5
MCHC (g/dL)	33.3	30.0 - 36.7	35.3	32.1 - 38.5	35.9	33.0 - 38.8
RDW-SD (fL)	46.6	43.8 - 49.4	47.1	44.3 - 49.9	48.7	44.8 - 52.6
RDW-CV (%)	19.5	18.3 - 20.6	16.6	15.6 - 17.6	16.2	14.9 - 17.5
PLT (10 ³ /μL)	93	57 - 128	238	200 - 276	562	489 - 635
PLT-F (10 ³ /μL)	83	61 - 106	240	175 - 305	537	414 - 661
IPF (%)	19.1	16.6 - 21.5	19.8	15.8 - 23.7	20.2	15.9 - 24.4
IPF#	15.9	13.8 - 17.9	46.3	37.0 - 55.5	106.8	84.4 - 129.3
MPV (fL)	9.1	7.7 - 10.6	11.1	10.2 - 12.0	10.9	10.1 - 11.8
WBC (10 ³ /μL)	3.08	2.77 - 3.39	6.77	6.30 - 7.25	16.81	15.80 - 17.82
NEUT# (10 ³ /μL)	1.20	0.98 - 1.42	2.94	2.53 - 3.35	8.07	7.02 - 9.12
LYMPH# (10 ³ /μL)	1.12	0.82 - 1.42	2.00	1.52 - 2.47	4.01	2.97 - 5.05
MONO# (10 ³ /μL)	0.31	0.14 - 0.49	0.78	0.39 - 1.18	2.02	1.11 - 2.92
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.72	0.46 - 0.99	1.91	1.18 - 2.64
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.33	0.28 - 0.38	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.31	0.24 - 0.37	0.75	0.61 - 0.89	2.03	1.67 - 2.40
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.44	0.32 - 0.56	1.15	0.92 - 1.38
NEUT%	39.0	33.5 - 44.4	43.4	38.7 - 48.2	48.0	43.2 - 52.8
LYMPH%	36.4	27.3 - 45.5	29.5	23.0 - 35.9	23.8	17.9 - 29.8
MONO%	10.2	4.7 - 15.7	11.6	6.0 - 17.1	12.0	6.7 - 17.3
EO%	9.6	6.0 - 13.1	10.7	6.8 - 14.5	11.4	7.2 - 15.6
BASO%	4.8	3.9 - 5.8	4.9	4.2 - 5.5	4.8	4.2 - 5.4
IG (%)	10.0	8.1 - 11.9	11.0	9.2 - 12.9	12.1	10.2 - 14.0
NRBC% (/100 WBC)	4.6	2.5 - 6.7	6.5	4.7 - 8.3	6.9	5.6 - 8.2
RET%	5.45	4.42 - 6.49	2.22	1.75 - 2.68	1.16	0.73 - 1.59
RET# (10 ⁶ /μL)	0.1299	0.1013 - 0.1585	0.0985	0.0798 - 0.1172	0.0596	0.0417 - 0.0775
IRF (%)	37.0	1.5 - 72.5	37.2	3.7 - 70.7	29.9	4.2 - 55.6
RET-He (pg)	24.8	21.3 - 28.2	25.9	22.5 - 29.3	27.4	23.3 - 31.5