



XN CHECK™

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

Expiration Date:	2022-05-22		Quality Control Data Due Date #1: 11-Apr-22		Quality Control Data Due Date #2: 22-May-22	
Lot Number:	20591101		20591102		20591103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.36	2.24 - 2.48	4.24	4.07 - 4.41	4.99	4.79 - 5.19
HGB (g/dL)	5.4	5.2 - 5.7	11.8	11.3 - 12.2	15.8	15.2 - 16.4
HCT (%)	16.4	15.2 - 17.5	34.1	32.1 - 36.2	44.5	41.8 - 47.2
MCV (fL)	69.2	65.1 - 73.4	80.5	75.7 - 85.3	89.1	83.8 - 94.5
MCH (pg)	23.0	21.2 - 24.8	27.8	25.8 - 29.7	31.6	29.7 - 33.5
MCHC (g/dL)	33.2	29.9 - 36.5	34.5	31.4 - 37.6	35.5	32.7 - 38.3
RDW-SD (fL)	48.0	45.2 - 50.9	49.1	46.1 - 52.0	47.8	44.0 - 51.6
RDW-CV (%)	19.6	18.4 - 20.8	17.1	16.1 - 18.2	15.0	13.8 - 16.2
PLT (10 ³ /μL)	93	57 - 128	243	216 - 269	557	507 - 607
PLT-F (10 ³ /μL)	86	63 - 109	251	183 - 319	556	428 - 684
IPF (%)	19.1	16.7 - 21.6	19.8	15.8 - 23.7	20.0	15.8 - 24.3
IPF#	16.5	14.3 - 18.6	47.3	37.8 - 56.8	108.7	85.9 - 131.6
MPV (fL)	8.3	7.0 - 9.6	9.3	8.6 - 9.9	9.1	8.6 - 9.5
WBC (10 ³ /μL)	2.97	2.67 - 3.27	6.94	6.46 - 7.43	16.96	15.94 - 17.98
NEUT# (10 ³ /μL)	1.14	0.94 - 1.35	2.99	2.57 - 3.40	8.03	6.98 - 9.07
LYMPH# (10 ³ /μL)	1.03	0.75 - 1.31	1.99	1.51 - 2.47	3.94	2.91 - 4.96
MONO# (10 ³ /μL)	0.38	0.17 - 0.59	0.91	0.46 - 1.37	2.27	1.25 - 3.29
EO# (10 ³ /μL)	0.28	0.17 - 0.38	0.72	0.45 - 0.98	1.91	1.18 - 2.63
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.39	0.81	0.71 - 0.92
IG # (10 ³ /μL)	0.29	0.23 - 0.36	0.76	0.62 - 0.91	2.02	1.66 - 2.39
NRBC# (10 ³ /μL)	0.13	0.07 - 0.18	0.45	0.33 - 0.57	1.13	0.90 - 1.36
NEUT%	38.5	33.1 - 43.9	43.0	38.3 - 47.7	47.3	42.6 - 52.1
LYMPH%	34.7	26.0 - 43.4	28.7	22.4 - 35.0	23.2	17.4 - 29.0
MONO%	12.6	5.8 - 19.5	13.2	6.8 - 19.5	13.4	7.5 - 19.3
EO%	9.4	5.9 - 12.8	10.3	6.6 - 14.0	11.3	7.1 - 15.4
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 - 13.8
NRBC% (/100 WBC)	4.3	2.3 - 6.3	6.5	4.7 - 8.3	6.7	5.4 - 7.9
RET%	5.42	4.39 - 6.45	2.42	1.91 - 2.93	1.34	0.84 - 1.83
RET# (10 ⁶ /μL)	0.1280	0.0999 - 0.1562	0.1027	0.0832 - 0.1223	0.0668	0.0468 - 0.0869
IRF (%)	32.3	1.3 - 63.3	36.6	3.7 - 69.5	30.6	4.3 - 56.9
RET-He (pg)	24.3	20.9 - 27.7	25.5	22.1 - 28.8	26.9	22.8 - 30.9



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2022-05-22		Quality Control Data Due Date #1: 11-Apr-22		Quality Control Data Due Date #2: 22-May-22	
Lot Number:	20591101		20591102		20591103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.37	2.25 - 2.49	4.27	4.10 - 4.45	5.06	4.85 - 5.26
HGB (g/dL)	5.5	5.2 - 5.7	11.8	11.3 - 12.3	15.8	15.2 - 16.4
HCT (%)	16.4	15.2 - 17.5	34.4	32.3 - 36.4	45.1	42.4 - 47.8
MCV (fL)	69.2	65.1 - 73.4	80.4	75.6 - 85.2	89.2	83.8 - 94.5
MCH (pg)	23.1	21.2 - 24.9	27.6	25.7 - 29.5	31.3	29.4 - 33.1
MCHC (g/dL)	33.3	30.0 - 36.6	34.3	31.2 - 37.4	35.1	32.2 - 37.9
RDW-SD (fL)	48.9	45.9 - 51.8	48.9	46.0 - 51.8	47.1	43.3 - 50.9
RDW-CV (%)	19.6	18.5 - 20.8	17.0	16.0 - 18.0	14.6	13.5 - 15.8
PLT (10 ³ /μL)	95	67 - 124	245	211 - 279	564	502 - 626
MPV (fL)	8.2	7.2 - 9.3	9.1	8.4 - 9.8	8.9	8.3 - 9.5
WBC (10 ³ /μL)	3.17	2.76 - 3.59	7.63	6.87 - 8.39	18.65	17.16 - 20.15
NEUT# (10 ³ /μL)	1.14	0.94 - 1.35	3.00	2.58 - 3.42	8.01	6.97 - 9.05
LYMPH# (10 ³ /μL)	1.15	0.84 - 1.46	2.28	1.74 - 2.83	4.67	3.46 - 5.89
MONO# (10 ³ /μL)	0.33	0.14 - 0.51	0.80	0.40 - 1.20	1.96	1.08 - 2.85
EO# (10 ³ /μL)	0.28	0.18 - 0.39	0.75	0.47 - 1.03	1.98	1.23 - 2.74
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.40	0.27 - 0.53	1.11	0.78 - 1.44
IG # (10 ³ /μL)	0.30	0.22 - 0.37	0.78	0.63 - 0.94	2.10	1.70 - 2.49
NEUT%	37.4	32.1 - 42.6	41.4	36.9 - 46.0	45.2	40.6 - 49.7
LYMPH%	37.5	28.2 - 46.9	31.6	24.6 - 38.5	26.3	19.8 - 32.9
MONO%	10.7	4.9 - 16.4	11.1	5.8 - 16.4	11.1	6.2 - 15.9
EO%	9.3	5.9 - 12.7	10.4	6.6 - 14.1	11.2	7.1 - 15.3
BASO%	5.1	3.3 - 6.9	5.6	3.9 - 7.2	6.2	4.4 - 8.1
IG (%)	9.7	7.7 - 11.7	10.8	8.7 - 13.0	11.8	9.8 - 13.8
RET%	6.20	4.59 - 7.81	2.69	1.99 - 3.39	1.39	0.92 - 1.86
RET# (10 ⁶ /μL)	0.1467	0.1071 - 0.1863	0.1151	0.0863 - 0.1438	0.0703	0.0457 - 0.0949
IRF (%)	24.5	1.0 - 48.0	27.8	2.8 - 52.9	25.6	3.6 - 47.7
RET-He (pg)	23.0	19.8 - 26.3	24.0	20.8 - 27.1	25.0	21.2 - 28.7



XN CHECK™

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

Expiration Date:	2022-05-22		Quality Control Data Due Date #1: 11-Apr-22		Quality Control Data Due Date #2: 22-May-22	
Lot Number:	20591101		20591102		20591103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.40	2.28 - 2.52	4.28	4.10 - 4.45	5.06	4.86 - 5.27
HGB (g/dL)	5.45	5.17 - 5.72	11.80	11.33 - 12.27	15.88	15.24 - 16.51
HCT (%)	16.1	15.0 - 17.2	33.0	31.0 - 35.0	43.5	40.9 - 46.1
MCV (fL)	67.2	63.2 - 71.2	77.2	72.6 - 81.9	85.9	80.8 - 91.1
MCH (pg)	22.7	20.9 - 24.6	27.6	25.7 - 29.5	31.4	29.5 - 33.2
MCHC (g/dL)	33.8	30.5 - 37.2	35.7	32.5 - 39.0	36.5	33.6 - 39.4
RDW-SD (fL)	46.4	43.6 - 49.2	47.2	44.4 - 50.1	45.9	42.3 - 49.6
RDW-CV (%)	19.6	18.4 - 20.8	17.3	16.3 - 18.4	15.1	13.9 - 16.3
PLT (10 ³ /μL)	98	61 - 136	246	219 - 273	570	519 - 622
PLT-F (10 ³ /μL)	86	63 - 110	252	184 - 319	555	427 - 683
IPF (%)	19.3	16.8 - 21.8	19.9	15.9 - 23.9	19.7	15.5 - 23.8
IPF#	16.7	14.5 - 18.8	47.7	38.1 - 57.2	106.4	84.1 - 128.8
MPV (fL)	9.2	7.7 - 10.7	10.2	9.5 - 10.9	10.1	9.6 - 10.6
WBC (10 ³ /μL)	2.95	2.65 - 3.24	6.87	6.39 - 7.35	16.85	15.84 - 17.86
NEUT# (10 ³ /μL)	1.13	0.93 - 1.34	2.94	2.52 - 3.35	7.91	6.88 - 8.93
LYMPH# (10 ³ /μL)	1.03	0.75 - 1.30	1.96	1.49 - 2.43	3.88	2.87 - 4.89
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.93	0.47 - 1.40	2.31	1.27 - 3.35
EO# (10 ³ /μL)	0.27	0.17 - 0.37	0.71	0.45 - 0.97	1.94	1.20 - 2.68
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.38	0.81	0.70 - 0.92
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.75	0.61 - 0.90	2.00	1.64 - 2.35
NRBC# (10 ³ /μL)	0.13	0.07 - 0.18	0.46	0.33 - 0.58	1.12	0.90 - 1.35
NEUT%	38.5	33.1 - 43.8	42.7	38.0 - 47.4	46.9	42.2 - 51.6
LYMPH%	34.8	26.1 - 43.6	28.5	22.3 - 34.8	23.0	17.3 - 28.8
MONO%	12.7	5.8 - 19.6	13.5	7.0 - 20.0	13.7	7.7 - 19.7
EO%	9.2	5.8 - 12.6	10.4	6.6 - 14.1	11.5	7.3 - 15.8
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.5	4.8	4.2 - 5.4
IG (%)	9.9	8.0 - 11.8	11.0	9.1 - 12.8	11.8	9.9 - 13.7
NRBC% (/100 WBC)	4.4	2.4 - 6.4	6.6	4.8 - 8.5	6.7	5.4 - 7.9
RET%	4.96	4.01 - 5.90	2.20	1.74 - 2.67	1.23	0.78 - 1.69
RET# (10 ⁶ /μL)	0.1187	0.0926 - 0.1448	0.0942	0.0763 - 0.1121	0.0624	0.0437 - 0.0811
IRF (%)	34.3	1.4 - 67.3	38.3	3.8 - 72.7	32.2	4.5 - 59.8
RET-He (pg)	24.1	20.7 - 27.5	25.3	22.0 - 28.5	26.7	22.7 - 30.7