



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:	20601101		20601102		20601103		
Control:	L1:Level 1		L2:Level 2		L3:Level 3		
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ⁶ /μL)	2.31	2.20 - 2.43	4.25	4.08 - 4.42	4.99	4.79 - 5.19	
HGB (g/dL)	5.2	5.0 - 5.5	12.4	11.9 - 12.9	15.9	15.3 - 16.5	
HCT (%)	15.6	14.5 - 16.7	35.5	33.4 - 37.6	44.6	41.9 - 47.3	
MCV (fL)	67.5	63.4 - 71.5	83.5	78.5 - 88.5	89.4	84.1 - 94.8	
MCH (pg)	22.7	20.9 - 24.5	29.2	27.2 - 31.3	31.9	30.0 - 33.8	
MCHC (g/dL)	33.6	30.2 - 37.0	35.0	31.9 - 38.2	35.6	32.8 - 38.5	
RDW-SD (fL)	48.0	45.1 - 50.8	46.5	43.7 - 49.3	48.7	44.8 - 52.6	
RDW-CV (%)	20.1	18.9 - 21.3	15.6	14.7 - 16.6	15.2	14.0 - 16.4	
PLT (10 ³ /μL)	92	57 - 127	251	224 - 279	567	516 - 618	
PLT-F (10 ³ /μL)	84	61 - 106	270	197 - 343	564	434 - 693	
IPF (%)	19.2	16.7 - 21.7	19.5	15.6 - 23.4	19.8	15.6 - 23.9	
IPF#	16.0	14.0 - 18.1	50.2	40.2 - 60.3	108.7	85.9 - 131.5	
MPV (fL)	8.8	7.4 - 10.3	9.0	8.4 - 9.6	8.9	8.4 - 9.3	
WBC (10 ³ /μL)	3.03	2.73 - 3.34	6.96	6.47 - 7.45	16.80	15.79 - 17.81	
NEUT# (10 ³ /μL)	1.14	0.93 - 1.34	3.07	2.64 - 3.50	7.93	6.90 - 8.96	
LYMPH# (10 ³ /μL)	1.05	0.77 - 1.34	2.05	1.56 - 2.54	3.96	2.93 - 4.99	
MONO# (10 ³ /μL)	0.42	0.18 - 0.65	0.79	0.39 - 1.18	2.19	1.21 - 3.18	
EO# (10 ³ /μL)	0.28	0.17 - 0.39	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	0.70 - 0.91	
IG # (10 ³ /μL)	0.29	0.23 - 0.36	0.78	0.63 - 0.93	2.00	1.64 - 2.36	
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.42	0.30 - 0.53	1.08	0.87 - 1.30	
NEUT%	37.5	32.3 - 42.8	44.1	39.3 - 49.0	47.2	42.5 - 51.9	
LYMPH%	34.7	26.0 - 43.4	29.5	23.0 - 35.9	23.6	17.7 - 29.5	
MONO%	13.7	6.3 - 21.2	11.3	5.9 - 16.8	13.1	7.3 - 18.8	
EO%	9.2	5.8 - 12.7	10.3	6.6 - 14.0	11.4	7.2 - 15.6	
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4	
IG (%)	9.7	7.9 - 11.5	11.2	9.3 - 13.1	11.9	10.0 - 13.8	
NRBC% (/100 WBC)	5.0	2.7 - 7.3	6.0	4.3 - 7.7	6.4	5.2 - 7.7	
RET%	5.84	4.73 - 6.95	2.47	1.95 - 2.99	1.34	0.85 - 1.84	
RET# (10 ⁶ /μL)	0.1351	0.1054 - 0.1648	0.1051	0.0851 - 0.1251	0.0669	0.0468 - 0.0870	
IRF (%)	37.8	1.5 - 74.1	40.0	4.0 - 76.1	32.4	4.5 - 60.4	
RET-He (pg)	24.0	20.6 - 27.3	25.3	22.0 - 28.5	27.1	23.0 - 31.2	



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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:	20601101		20601102		20601103		
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	4.29	4.12 - 4.46	5.05	4.85 - 5.26	
HGB (g/dL)	5.3	5.0 - 5.5	12.4	11.9 - 12.9	15.9	15.2 - 16.5	
HCT (%)	15.8	14.7 - 16.9	35.9	33.7 - 38.0	45.2	42.5 - 47.9	
MCV (fL)	67.8	63.7 - 71.9	83.6	78.6 - 88.7	89.5	84.1 - 94.9	
MCH (pg)	22.6	20.8 - 24.4	29.0	27.0 - 31.0	31.4	29.5 - 33.3	
MCHC (g/dL)	33.3	29.9 - 36.6	34.7	31.6 - 37.8	35.1	32.3 - 37.9	
RDW-SD (fL)	48.4	45.5 - 51.3	46.6	43.8 - 49.3	48.2	44.3 - 52.0	
RDW-CV (%)	20.1	18.9 - 21.3	15.5	14.5 - 16.4	14.9	13.7 - 16.0	
PLT (10 ³ /μL)	95	66 - 123	253	218 - 289	571	509 - 634	
MPV (fL)	8.7	7.6 - 9.8	8.8	8.1 - 9.5	8.7	8.1 - 9.3	
WBC (10 ³ /μL)	3.25	2.83 - 3.67	7.67	6.90 - 8.43	18.48	17.00 - 19.96	
NEUT# (10 ³ /μL)	1.15	0.94 - 1.35	3.12	2.68 - 3.56	7.96	6.92 - 8.99	
LYMPH# (10 ³ /μL)	1.17	0.86 - 1.49	2.29	1.74 - 2.84	4.60	3.41 - 5.80	
MONO# (10 ³ /μL)	0.36	0.16 - 0.56	0.74	0.37 - 1.10	1.97	1.08 - 2.85	
EO# (10 ³ /μL)	0.29	0.18 - 0.39	0.75	0.47 - 1.02	1.98	1.23 - 2.73	
BASO# (10 ³ /μL)	0.16	0.10 - 0.21	0.42	0.29 - 0.56	1.09	0.76 - 1.41	
IG # (10 ³ /μL)	0.30	0.22 - 0.37	0.81	0.65 - 0.98	2.08	1.68 - 2.47	
NEUT%	36.7	31.6 - 41.9	42.7	38.0 - 47.4	45.2	40.7 - 49.7	
LYMPH%	37.6	28.2 - 47.0	31.3	24.4 - 38.2	26.2	19.6 - 32.7	
MONO%	11.6	5.3 - 17.8	10.1	5.2 - 14.9	11.2	6.3 - 16.1	
EO%	9.2	5.8 - 12.5	10.2	6.5 - 13.9	11.3	7.1 - 15.4	
BASO%	5.0	3.2 - 6.7	5.8	4.0 - 7.5	6.2	4.4 - 8.0	
IG (%)	9.6	7.6 - 11.6	11.1	8.9 - 13.4	11.8	9.8 - 13.8	
RET%	6.81	5.04 - 8.58	2.76	2.04 - 3.47	1.38	0.91 - 1.84	
RET# (10 ⁶ /μL)	0.1586	0.1158 - 0.2015	0.1181	0.0886 - 0.1477	0.0695	0.0452 - 0.0938	
IRF (%)	31.1	1.2 - 60.9	33.2	3.3 - 63.1	28.9	4.0 - 53.8	
RET-He (pg)	22.7	19.5 - 25.9	23.7	20.7 - 26.8	25.0	21.3 - 28.8	



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:	20601101		20601102		20601103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.36	2.24 - 2.47	4.29	4.12 - 4.47	5.06	4.86 - 5.26
HGB (g/dL)	5.23	4.97 - 5.49	12.48	11.98 - 12.98	15.96	15.32 - 16.60
HCT (%)	15.7	14.6 - 16.8	34.8	32.7 - 36.9	43.8	41.2 - 46.5
MCV (fL)	66.5	62.6 - 70.5	81.0	76.1 - 85.8	86.7	81.5 - 91.9
MCH (pg)	22.2	20.4 - 24.0	29.1	27.0 - 31.1	31.5	29.6 - 33.4
MCHC (g/dL)	33.4	30.0 - 36.7	35.9	32.7 - 39.1	36.4	33.5 - 39.3
RDW-SD (fL)	46.8	44.0 - 49.6	45.0	42.3 - 47.7	47.2	43.5 - 51.0
RDW-CV (%)	20.0	18.8 - 21.2	15.7	14.7 - 16.6	15.3	14.1 - 16.6
PLT (10 ³ /μL)	97	60 - 133	257	229 - 285	580	528 - 632
PLT-F (10 ³ /μL)	84	61 - 107	269	197 - 342	562	433 - 691
IPF (%)	19.0	16.5 - 21.5	19.7	15.8 - 23.7	20.1	15.9 - 24.4
IPF#	16.0	13.9 - 18.0	50.6	40.5 - 60.7	110.4	87.2 - 133.6
MPV (fL)	9.9	8.3 - 11.5	9.9	9.2 - 10.6	9.8	9.3 - 10.3
WBC (10 ³ /μL)	3.00	2.70 - 3.30	6.97	6.48 - 7.46	16.69	15.69 - 17.69
NEUT# (10 ³ /μL)	1.12	0.92 - 1.33	3.06	2.63 - 3.49	7.85	6.83 - 8.87
LYMPH# (10 ³ /μL)	1.02	0.75 - 1.30	2.03	1.54 - 2.52	3.89	2.88 - 4.91
MONO# (10 ³ /μL)	0.43	0.19 - 0.67	0.82	0.41 - 1.23	2.23	1.22 - 3.23
EO# (10 ³ /μL)	0.27	0.17 - 0.38	0.72	0.45 - 0.99	1.91	1.19 - 2.64
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.39	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.78	0.63 - 0.93	1.99	1.63 - 2.34
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.42	0.31 - 0.53	1.08	0.86 - 1.29
NEUT%	37.5	32.3 - 42.8	43.9	39.1 - 48.8	47.0	42.3 - 51.7
LYMPH%	34.2	25.6 - 42.7	29.1	22.7 - 35.6	23.3	17.5 - 29.2
MONO%	14.4	6.6 - 22.2	11.8	6.1 - 17.4	13.3	7.5 - 19.2
EO%	9.1	5.8 - 12.5	10.4	6.6 - 14.1	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 (%)	9.7	7.9 - 11.6	11.2	9.3 - 13.1	11.9	10.0 - 13.8
NRBC% (/100 WBC)	5.0	2.7 - 7.3	6.0	4.3 - 7.7	6.4	5.2 - 7.7
RET%	5.24	4.25 - 6.24	2.21	1.75 - 2.67	1.22	0.77 - 1.67
RET# (10 ⁶ /μL)	0.1235	0.0963 - 0.1506	0.0949	0.0768 - 0.1129	0.0618	0.0432 - 0.0803
IRF (%)	40.6	1.6 - 79.6	42.5	4.3 - 80.8	34.0	4.8 - 63.2
RET-He (pg)	23.8	20.5 - 27.1	25.1	21.9 - 28.4	27.0	22.9 - 31.0