



XN CHECK™

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

Expiration Date:	2020-07-19		Quality Control Data Due Date #1: 08-Jun-20		Quality Control Data Due Date #2: 19-Jul-20	
Lot Number:	01181101		01181102		01181103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.29	2.18 - 2.41	4.35	4.18 - 4.53	5.24	5.03 - 5.45
HGB (g/dL)	5.7	5.4 - 6.0	11.7	11.2 - 12.2	15.5	14.8 - 16.1
HCT (%)	16.9	15.8 - 18.1	34.1	32.1 - 36.2	44.3	41.6 - 46.9
MCV (fL)	74.0	69.6 - 78.4	78.4	73.7 - 83.1	84.4	79.3 - 89.5
MCH (pg)	24.9	22.9 - 26.9	26.9	25.0 - 28.8	29.5	27.7 - 31.3
MCHC (g/dL)	33.6	30.3 - 37.0	34.3	31.2 - 37.4	34.9	32.1 - 37.7
RDW-SD (fL)	53.1	49.9 - 56.3	50.2	47.2 - 53.2	49.2	45.2 - 53.1
RDW-CV (%)	20.0	18.8 - 21.2	17.8	16.8 - 18.9	16.3	15.0 - 17.6
PLT (10 ³ /μL)	92	57 - 128	252	224 - 280	564	513 - 615
PLT-F (10 ³ /μL)	83	61 - 106	256	187 - 325	533	411 - 656
IPF (%)	19.3	16.8 - 21.8	20.1	16.1 - 24.1	20.4	16.1 - 24.6
IPF#	16.1	14.0 - 18.2	48.9	39.1 - 58.7	105.9	83.7 - 128.2
MPV (fL)	8.9	7.5 - 10.3	9.5	8.8 - 10.2	9.4	8.9 - 9.8
WBC (10 ³ /μL)	3.01	2.71 - 3.31	6.82	6.34 - 7.30	16.28	15.30 - 17.26
NEUT# (10 ³ /μL)	1.14	0.93 - 1.34	2.99	2.57 - 3.40	7.77	6.76 - 8.78
LYMPH# (10 ³ /μL)	1.09	0.79 - 1.38	2.13	1.62 - 2.64	4.32	3.19 - 5.44
MONO# (10 ³ /μL)	0.43	0.19 - 0.67	0.85	0.42 - 1.27	1.92	1.06 - 2.78
EO# (10 ³ /μL)	0.27	0.17 - 0.38	0.73	0.46 - 1.01	1.90	1.18 - 2.63
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.34	0.28 - 0.39	0.81	0.70 - 0.91
IG # (10 ³ /μL)	0.30	0.23 - 0.36	0.75	0.61 - 0.89	1.97	1.61 - 2.32
NRBC# (10 ³ /μL)	0.16	0.09 - 0.23	0.39	0.29 - 0.50	1.05	0.84 - 1.26
NEUT%	37.1	31.9 - 42.2	42.4	37.8 - 47.1	46.5	41.8 - 51.1
LYMPH%	35.3	26.5 - 44.1	30.3	23.6 - 37.0	25.8	19.4 - 32.3
MONO%	13.9	6.4 - 21.4	12.0	6.3 - 17.8	11.5	6.4 - 16.5
EO%	8.9	5.6 - 12.3	10.4	6.7 - 14.2	11.4	7.2 - 15.6
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	9.6	7.8 - 11.4	10.7	8.9 - 12.5	11.8	9.9 - 13.6
NRBC% (/100 WBC)	5.4	2.9 - 7.8	5.8	4.2 - 7.4	6.4	5.2 - 7.7
RET%	5.36	4.34 - 6.38	2.27	1.79 - 2.74	0.86	0.54 - 1.18
RET# (10 ⁶ /μL)	0.1227	0.0957 - 0.1497	0.0986	0.0799 - 0.1174	0.0451	0.0316 - 0.0586
IRF (%)	31.7	1.3 - 62.2	36.3	3.6 - 69.0	27.1	3.8 - 50.4
RET-He (pg)	25.2	21.7 - 28.7	26.2	22.8 - 29.6	28.1	23.9 - 32.3



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2020-07-19		Quality Control Data Due Date #1: 08-Jun-20		Quality Control Data Due Date #2: 19-Jul-20	
Lot Number:	01181101		01181102		01181103	
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	2.19 - 2.42	4.39	4.21 - 4.56	5.29	5.08 - 5.50
HGB (g/dL)	5.8	5.5 - 6.0	11.8	11.3 - 12.3	15.6	15.0 - 16.2
HCT (%)	17.1	15.9 - 18.3	34.2	32.2 - 36.3	44.4	41.7 - 47.1
MCV (fL)	74.3	69.8 - 78.7	78.0	73.3 - 82.7	83.9	78.9 - 89.0
MCH (pg)	25.0	23.0 - 27.0	26.9	25.0 - 28.8	29.5	27.7 - 31.2
MCHC (g/dL)	33.6	30.3 - 37.0	34.5	31.4 - 37.6	35.1	32.3 - 37.9
RDW-SD (fL)	53.2	50.0 - 56.4	49.5	46.5 - 52.5	48.1	44.2 - 51.9
RDW-CV (%)	20.1	18.9 - 21.3	17.7	16.7 - 18.8	16.1	14.8 - 17.3
PLT (10 ³ /μL)	94	59 - 130	253	225 - 281	565	514 - 616
MPV (fL)	8.8	7.4 - 10.2	9.4	8.7 - 10.0	9.2	8.7 - 9.7
WBC (10 ³ /μL)	3.27	2.94 - 3.59	7.52	7.00 - 8.05	18.03	16.94 - 19.11
NEUT# (10 ³ /μL)	1.13	0.93 - 1.33	2.99	2.57 - 3.40	7.71	6.71 - 8.71
LYMPH# (10 ³ /μL)	1.21	0.88 - 1.53	2.34	1.78 - 2.90	4.72	3.49 - 5.94
MONO# (10 ³ /μL)	0.36	0.16 - 0.56	0.74	0.37 - 1.11	1.79	0.98 - 2.59
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.72	0.45 - 0.98	1.90	1.18 - 2.62
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.41	0.34 - 0.47	1.04	0.90 - 1.18
IG # (10 ³ /μL)	0.30	0.23 - 0.36	0.78	0.63 - 0.93	2.00	1.64 - 2.36
NEUT%	36.1	31.1 - 41.2	41.5	37.0 - 46.1	44.9	40.5 - 49.4
LYMPH%	38.6	29.0 - 48.3	32.5	25.4 - 39.7	27.5	20.6 - 34.4
MONO%	11.4	5.3 - 17.6	10.3	5.4 - 15.2	10.4	5.8 - 15.0
EO%	9.0	5.7 - 12.3	10.0	6.4 - 13.6	11.1	7.0 - 15.2
BASO%	4.8	3.9 - 5.8	5.7	4.9 - 6.4	6.1	5.3 - 6.8
IG (%)	9.4	7.7 - 11.2	10.9	9.0 - 12.7	11.7	9.8 - 13.5
RET%	6.04	4.89 - 7.19	2.43	1.92 - 2.94	0.82	0.51 - 1.12
RET# (10 ⁶ /μL)	0.1394	0.1088 - 0.1701	0.1067	0.0865 - 0.1270	0.0432	0.0302 - 0.0561
IRF (%)	25.8	1.0 - 50.6	28.9	2.9 - 54.9	22.5	3.1 - 41.8
RET-He (pg)	22.9	19.7 - 26.1	23.6	20.6 - 26.7	25.4	21.6 - 29.2



XN CHECK™

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

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Lot Number:	01181101		01181102		01181103	
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	4.44	4.26 - 4.61	5.33	5.12 - 5.54
HGB (g/dL)	5.73	5.44 - 6.02	11.82	11.35 - 12.29	15.66	15.03 - 16.28
HCT (%)	16.8	15.7 - 18.0	33.4	31.4 - 35.4	43.4	40.8 - 46.0
MCV (fL)	71.9	67.6 - 76.2	75.3	70.8 - 79.9	81.4	76.5 - 86.3
MCH (pg)	24.5	22.5 - 26.4	26.6	24.8 - 28.5	29.4	27.6 - 31.1
MCHC (g/dL)	34.0	30.6 - 37.4	35.4	32.2 - 38.5	36.1	33.2 - 39.0
RDW-SD (fL)	50.2	47.2 - 53.2	47.8	45.0 - 50.7	48.6	44.7 - 52.5
RDW-CV (%)	19.8	18.6 - 21.0	18.1	17.0 - 19.1	17.1	15.7 - 18.4
PLT (10 ³ /μL)	95	59 - 131	252	224 - 280	566	515 - 617
PLT-F (10 ³ /μL)	84	61 - 107	251	183 - 319	530	408 - 652
IPF (%)	19.3	16.8 - 21.8	19.8	15.8 - 23.7	19.6	15.5 - 23.7
IPF#	16.3	14.1 - 18.4	47.3	37.8 - 56.7	101.5	80.2 - 122.9
MPV (fL)	9.9	8.3 - 11.5	10.5	9.8 - 11.3	10.4	9.8 - 10.9
WBC (10 ³ /μL)	3.00	2.70 - 3.30	6.84	6.36 - 7.31	16.27	15.29 - 17.25
NEUT# (10 ³ /μL)	1.14	0.94 - 1.35	3.03	2.61 - 3.46	7.89	6.87 - 8.92
LYMPH# (10 ³ /μL)	1.06	0.77 - 1.34	2.08	1.58 - 2.58	4.18	3.09 - 5.27
MONO# (10 ³ /μL)	0.46	0.20 - 0.72	0.91	0.46 - 1.37	2.07	1.14 - 3.00
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.72	0.45 - 0.98	1.81	1.12 - 2.50
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.34	0.29 - 0.40	0.81	0.71 - 0.92
IG # (10 ³ /μL)	0.29	0.23 - 0.35	0.78	0.63 - 0.92	1.99	1.63 - 2.34
NRBC# (10 ³ /μL)	0.16	0.09 - 0.23	0.40	0.29 - 0.50	1.05	0.84 - 1.26
NEUT%	37.0	31.8 - 42.1	42.8	38.1 - 47.5	47.1	42.4 - 51.8
LYMPH%	34.2	25.7 - 42.8	29.3	22.9 - 35.8	24.9	18.7 - 31.2
MONO%	15.0	6.9 - 23.1	12.9	6.7 - 19.1	12.3	6.9 - 17.8
EO%	9.1	5.7 - 12.4	10.1	6.5 - 13.8	10.8	6.8 - 14.8
BASO%	4.7	3.8 - 5.6	4.8	4.2 - 5.5	4.8	4.3 - 5.4
IG (%)	9.4	7.7 - 11.2	10.9	9.1 - 12.8	11.8	9.9 - 13.7
NRBC% (/100 WBC)	5.4	2.9 - 7.9	5.8	4.2 - 7.4	6.5	5.2 - 7.7
RET%	4.62	3.74 - 5.49	1.96	1.55 - 2.37	0.84	0.53 - 1.15
RET# (10 ⁶ /μL)	0.1081	0.0843 - 0.1318	0.0870	0.0705 - 0.1035	0.0448	0.0314 - 0.0582
IRF (%)	38.5	1.5 - 75.5	40.5	4.0 - 76.9	26.3	3.7 - 48.8
RET-He (pg)	24.2	20.8 - 27.5	25.2	21.9 - 28.5	27.9	23.7 - 32.1