



XN CHECK™

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

Expiration Date:	2021-10-10		Quality Control Data Due Date #1: 30-Aug-21		Quality Control Data Due Date #2: 10-Oct-21	
Lot Number:	12031101		12031102		12031103	
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	2.19 - 2.42	4.20	4.03 - 4.37	4.99	4.79 - 5.19
HGB (g/dL)	5.4	5.1 - 5.6	11.8	11.3 - 12.3	15.9	15.2 - 16.5
HCT (%)	16.0	14.9 - 17.1	33.8	31.8 - 35.8	44.0	41.3 - 46.6
MCV (fL)	69.4	65.2 - 73.5	80.5	75.7 - 85.4	88.1	82.9 - 93.4
MCH (pg)	23.2	21.4 - 25.1	28.1	26.1 - 30.1	31.8	29.9 - 33.7
MCHC (g/dL)	33.5	30.2 - 36.9	34.9	31.8 - 38.0	36.1	33.2 - 38.9
RDW-SD (fL)	48.8	45.9 - 51.8	46.8	44.0 - 49.6	46.5	42.7 - 50.2
RDW-CV (%)	20.3	19.0 - 21.5	16.3	15.3 - 17.3	14.8	13.6 - 16.0
PLT (10 ³ /μL)	89	55 - 123	245	218 - 272	561	510 - 611
PLT-F (10 ³ /μL)	83	61 - 106	254	185 - 322	527	405 - 648
IPF (%)	19.2	16.7 - 21.6	20.2	16.2 - 24.3	19.2	15.1 - 23.2
IPF#	15.0	13.1 - 17.0	48.8	39.1 - 58.6	98.5	77.8 - 119.2
MPV (fL)	8.5	7.1 - 9.8	9.7	9.0 - 10.4	9.6	9.1 - 10.1
WBC (10 ³ /μL)	2.94	2.65 - 3.24	6.92	6.44 - 7.41	16.41	15.42 - 17.39
NEUT# (10 ³ /μL)	1.14	0.93 - 1.34	3.03	2.61 - 3.45	8.02	6.98 - 9.07
LYMPH# (10 ³ /μL)	1.04	0.76 - 1.33	1.99	1.51 - 2.46	3.79	2.81 - 4.78
MONO# (10 ³ /μL)	0.34	0.15 - 0.53	0.86	0.43 - 1.29	1.98	1.09 - 2.88
EO# (10 ³ /μL)	0.28	0.17 - 0.38	0.71	0.45 - 0.98	1.82	1.13 - 2.51
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.39	0.79	0.69 - 0.89
IG # (10 ³ /μL)	0.29	0.23 - 0.36	0.77	0.63 - 0.92	2.01	1.65 - 2.37
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.41	0.30 - 0.53	1.08	0.87 - 1.30
NEUT%	38.6	33.2 - 44.1	43.8	39.0 - 48.6	48.9	44.0 - 53.8
LYMPH%	35.5	26.6 - 44.4	28.7	22.4 - 35.0	23.1	17.3 - 28.9
MONO%	11.6	5.3 - 17.9	12.4	6.5 - 18.4	12.1	6.8 - 17.4
EO%	9.4	5.9 - 12.9	10.3	6.6 - 14.0	11.1	7.0 - 15.2
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	10.0	8.1 - 11.9	11.2	9.3 - 13.0	12.2	10.3 - 14.2
NRBC% (/100 WBC)	4.8	2.6 - 7.1	6.0	4.3 - 7.7	6.7	5.4 - 8.0
RET%	5.95	4.82 - 7.08	2.57	2.03 - 3.11	1.24	0.78 - 1.70
RET# (10 ⁶ /μL)	0.1370	0.1068 - 0.1671	0.1079	0.0874 - 0.1283	0.0617	0.0432 - 0.0802
IRF (%)	44.5	1.8 - 87.3	48.4	4.8 - 91.9	38.2	5.3 - 71.0
RET-He (pg)	24.5	21.1 - 28.0	25.3	22.1 - 28.6	27.1	23.0 - 31.1



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2021-10-10		Quality Control Data Due Date #1: 30-Aug-21		Quality Control Data Due Date #2: 10-Oct-21	
Lot Number:	12031101		12031102		12031103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.32	2.20 - 2.43	4.23	4.07 - 4.40	5.09	4.89 - 5.29
HGB (g/dL)	5.4	5.1 - 5.7	11.9	11.4 - 12.3	15.9	15.3 - 16.6
HCT (%)	16.1	15.0 - 17.2	34.1	32.0 - 36.1	44.6	42.0 - 47.3
MCV (fL)	69.4	65.2 - 73.5	80.5	75.7 - 85.3	87.7	82.5 - 93.0
MCH (pg)	23.3	21.4 - 25.1	28.0	26.1 - 30.0	31.3	29.4 - 33.1
MCHC (g/dL)	33.5	30.2 - 36.9	34.8	31.7 - 38.0	35.6	32.8 - 38.5
RDW-SD (fL)	49.3	46.4 - 52.3	46.1	43.3 - 48.8	45.8	42.1 - 49.4
RDW-CV (%)	20.1	18.9 - 21.3	16.0	15.1 - 17.0	14.5	13.3 - 15.6
PLT (10 ³ /μL)	91	56 - 125	249	222 - 277	572	521 - 624
MPV (fL)	8.4	7.0 - 9.7	9.5	8.9 - 10.2	9.4	8.9 - 9.9
WBC (10 ³ /μL)	3.25	2.92 - 3.57	7.76	7.22 - 8.31	18.42	17.32 - 19.53
NEUT# (10 ³ /μL)	1.18	0.97 - 1.40	3.12	2.68 - 3.55	8.11	7.06 - 9.16
LYMPH# (10 ³ /μL)	1.17	0.86 - 1.49	2.30	1.75 - 2.86	4.37	3.23 - 5.51
MONO# (10 ³ /μL)	0.31	0.14 - 0.49	0.77	0.39 - 1.16	1.89	1.04 - 2.75
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.75	0.47 - 1.03	1.96	1.22 - 2.71
BASO# (10 ³ /μL)	0.16	0.12 - 0.20	0.43	0.36 - 0.50	1.10	0.96 - 1.24
IG # (10 ³ /μL)	0.31	0.24 - 0.37	0.81	0.66 - 0.96	2.10	1.72 - 2.48
NEUT%	37.8	32.5 - 43.1	42.3	37.6 - 46.9	46.5	41.9 - 51.2
LYMPH%	37.5	28.2 - 46.9	31.2	24.4 - 38.1	25.1	18.8 - 31.3
MONO%	10.0	4.6 - 15.4	10.5	5.4 - 15.5	10.9	6.1 - 15.6
EO%	9.5	6.0 - 13.0	10.2	6.5 - 13.9	11.3	7.1 - 15.4
BASO%	5.1	4.2 - 6.1	5.8	5.0 - 6.5	6.3	5.5 - 7.1
IG (%)	9.9	8.0 - 11.7	11.0	9.1 - 12.8	12.0	10.1 - 14.0
RET%	7.15	5.79 - 8.51	2.81	2.22 - 3.40	1.26	0.79 - 1.72
RET# (10 ⁶ /μL)	0.1659	0.1294 - 0.2024	0.1190	0.0964 - 0.1417	0.0639	0.0447 - 0.0830
IRF (%)	40.3	1.6 - 78.9	44.2	4.4 - 83.9	37.0	5.2 - 68.8
RET-He (pg)	22.4	19.3 - 25.6	22.8	19.9 - 25.8	23.9	20.4 - 27.5



XN CHECK™

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

Expiration Date:	2021-10-10		Quality Control Data Due Date #1: 30-Aug-21		Quality Control Data Due Date #2: 10-Oct-21	
Lot Number:	12031101		12031102		12031103	
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 - 2.48	4.25	4.08 - 4.42	5.10	4.89 - 5.30
HGB (g/dL)	5.37	5.10 - 5.64	11.90	11.42 - 12.37	16.05	15.41 - 16.69
HCT (%)	15.9	14.8 - 17.0	33.2	31.2 - 35.2	44.1	41.5 - 46.8
MCV (fL)	67.5	63.4 - 71.5	78.2	73.5 - 82.9	86.6	81.4 - 91.8
MCH (pg)	22.8	20.9 - 24.6	28.0	26.1 - 30.0	31.5	29.6 - 33.4
MCHC (g/dL)	33.7	30.4 - 37.1	35.8	32.6 - 39.0	36.4	33.4 - 39.3
RDW-SD (fL)	47.2	44.4 - 50.0	44.7	42.0 - 47.4	47.2	43.4 - 51.0
RDW-CV (%)	20.0	18.8 - 21.1	16.3	15.3 - 17.3	15.4	14.1 - 16.6
PLT (10 ³ /μL)	93	58 - 129	249	222 - 277	566	515 - 617
PLT-F (10 ³ /μL)	82	60 - 105	255	186 - 324	544	419 - 669
IPF (%)	19.2	16.7 - 21.7	20.2	16.1 - 24.2	20.0	15.8 - 24.2
IPF#	15.8	13.7 - 17.8	49.1	39.3 - 58.9	105.9	83.7 - 128.1
MPV (fL)	9.4	7.9 - 10.9	10.8	10.1 - 11.6	10.6	10.1 - 11.1
WBC (10 ³ /μL)	2.98	2.68 - 3.28	6.90	6.42 - 7.38	16.44	15.45 - 17.43
NEUT# (10 ³ /μL)	1.16	0.95 - 1.37	3.03	2.60 - 3.45	7.93	6.90 - 8.96
LYMPH# (10 ³ /μL)	1.04	0.76 - 1.32	1.98	1.50 - 2.45	3.75	2.78 - 4.73
MONO# (10 ³ /μL)	0.36	0.16 - 0.56	0.86	0.43 - 1.29	2.04	1.12 - 2.96
EO# (10 ³ /μL)	0.28	0.17 - 0.38	0.70	0.44 - 0.96	1.92	1.19 - 2.65
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.39	0.79	0.69 - 0.89
IG # (10 ³ /μL)	0.30	0.24 - 0.36	0.77	0.62 - 0.91	1.98	1.62 - 2.34
NRBC# (10 ³ /μL)	0.15	0.08 - 0.21	0.42	0.30 - 0.53	1.09	0.87 - 1.31
NEUT%	38.9	33.4 - 44.3	43.8	39.0 - 48.7	48.2	43.4 - 53.0
LYMPH%	34.9	26.2 - 43.6	28.7	22.4 - 35.0	22.8	17.1 - 28.6
MONO%	12.1	5.6 - 18.7	12.5	6.5 - 18.4	12.4	7.0 - 17.9
EO%	9.3	5.9 - 12.8	10.2	6.5 - 13.9	11.7	7.4 - 16.0
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.5	4.8	4.2 - 5.4
IG (%)	10.0	8.1 - 11.9	11.1	9.2 - 13.0	12.1	10.1 - 14.0
NRBC% (/100 WBC)	5.0	2.7 - 7.2	6.0	4.3 - 7.7	6.6	5.4 - 7.9
RET%	5.16	4.18 - 6.13	2.16	1.71 - 2.62	1.09	0.69 - 1.49
RET# (10 ⁶ /μL)	0.1216	0.0949 - 0.1484	0.0918	0.0744 - 0.1093	0.0555	0.0389 - 0.0722
IRF (%)	48.7	1.9 - 95.5	50.9	5.1 - 96.7	37.3	5.2 - 69.3
RET-He (pg)	24.4	21.0 - 27.8	25.3	22.0 - 28.6	27.6	23.4 - 31.7