



XN CHECK™

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

Expiration Date:	2022-09-11		Quality Control Data Due Date #1: 01-Aug-22		Quality Control Data Due Date #2: 11-Sep-22	
Lot Number:	21751101		21751102		21751103	
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	2.18 - 2.41	4.27	4.10 - 4.44	4.97	4.77 - 5.17
HGB (g/dL)	5.4	5.1 - 5.7	11.4	11.0 - 11.9	14.9	14.3 - 15.5
HCT (%)	16.0	14.9 - 17.1	32.9	30.9 - 34.8	42.0	39.4 - 44.5
MCV (fL)	69.5	65.3 - 73.7	76.9	72.3 - 81.5	84.5	79.4 - 89.5
MCH (pg)	23.5	21.6 - 25.4	26.7	24.8 - 28.6	30.1	28.3 - 31.9
MCHC (g/dL)	33.8	30.4 - 37.2	34.7	31.6 - 37.9	35.6	32.8 - 38.5
RDW-SD (fL)	50.9	47.8 - 53.9	48.7	45.8 - 51.6	47.3	43.6 - 51.1
RDW-CV (%)	20.5	19.3 - 21.7	17.8	16.8 - 18.9	15.6	14.4 - 16.9
PLT (10 ³ /μL)	89	55 - 123	248	220 - 275	550	501 - 600
PLT-F (10 ³ /μL)	83	60 - 105	250	182 - 317	526	405 - 646
IPF (%)	19.0	16.5 - 21.5	20.4	16.3 - 24.4	20.3	16.0 - 24.6
IPF#	15.7	13.7 - 17.8	48.4	38.8 - 58.1	104.2	82.3 - 126.0
MPV (fL)	8.2	6.9 - 9.5	9.0	8.4 - 9.7	8.9	8.4 - 9.3
WBC (10 ³ /μL)	3.08	2.77 - 3.39	7.42	6.91 - 7.94	16.57	15.58 - 17.57
NEUT# (10 ³ /μL)	1.15	0.94 - 1.36	3.21	2.76 - 3.66	7.83	6.82 - 8.85
LYMPH# (10 ³ /μL)	1.12	0.82 - 1.42	2.10	1.60 - 2.61	4.01	2.97 - 5.05
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	0.99	0.49 - 1.48	2.12	1.16 - 3.07
EO# (10 ³ /μL)	0.29	0.18 - 0.39	0.76	0.48 - 1.05	1.81	1.12 - 2.50
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.36	0.30 - 0.42	0.80	0.70 - 0.90
IG # (10 ³ /μL)	0.30	0.23 - 0.36	0.81	0.66 - 0.97	1.97	1.62 - 2.33
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.46	0.34 - 0.59	1.11	0.89 - 1.33
NEUT%	37.3	32.1 - 42.6	43.3	38.5 - 48.0	47.3	42.5 - 52.0
LYMPH%	36.5	27.3 - 45.6	28.3	22.1 - 34.6	24.2	18.2 - 30.3
MONO%	12.1	5.6 - 18.6	13.3	6.9 - 19.7	12.8	7.1 - 18.4
EO%	9.3	5.8 - 12.7	10.3	6.6 - 14.0	10.9	6.9 - 15.0
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	9.6	7.8 - 11.5	10.9	9.1 - 12.8	11.9	10.0 - 13.8
NRBC% (/100 WBC)	4.6	2.5 - 6.7	6.3	4.5 - 8.0	6.7	5.4 - 8.0
RET%	5.81	4.70 - 6.91	2.46	1.94 - 2.97	1.42	0.89 - 1.94
RET# (10 ⁶ /μL)	0.1336	0.1042 - 0.1630	0.1049	0.0850 - 0.1248	0.0703	0.0492 - 0.0914
IRF (%)	37.4	1.5 - 73.3	39.5	3.9 - 75.0	31.8	4.4 - 59.1
RET-He (pg)	24.7	21.3 - 28.2	25.6	22.3 - 29.0	26.5	22.6 - 30.5



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2022-09-11		Quality Control Data Due Date #1: 01-Aug-22		Quality Control Data Due Date #2: 11-Sep-22	
Lot Number:	21751101		21751102		21751103	
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	4.30	4.13 - 4.48	5.03	4.83 - 5.23
HGB (g/dL)	5.5	5.2 - 5.7	11.5	11.0 - 11.9	15.0	14.4 - 15.6
HCT (%)	16.1	15.0 - 17.3	32.9	30.9 - 34.9	42.3	39.7 - 44.8
MCV (fL)	69.7	65.5 - 73.9	76.5	71.9 - 81.1	84.0	78.9 - 89.0
MCH (pg)	23.6	21.7 - 25.5	26.7	24.8 - 28.5	29.8	28.0 - 31.6
MCHC (g/dL)	33.8	30.4 - 37.2	34.8	31.7 - 38.0	35.5	32.6 - 38.3
RDW-SD (fL)	51.1	48.1 - 54.2	48.4	45.5 - 51.3	46.5	42.8 - 50.2
RDW-CV (%)	20.5	19.2 - 21.7	17.6	16.5 - 18.7	15.2	14.0 - 16.5
PLT (10 ³ /μL)	91	64 - 119	249	214 - 284	561	499 - 623
MPV (fL)	8.1	7.0 - 9.1	8.9	8.1 - 9.6	8.7	8.1 - 9.3
WBC (10 ³ /μL)	3.32	2.89 - 3.76	8.29	7.46 - 9.12	18.52	17.04 - 20.00
NEUT# (10 ³ /μL)	1.18	0.97 - 1.40	3.30	2.84 - 3.76	7.94	6.91 - 8.98
LYMPH# (10 ³ /μL)	1.24	0.91 - 1.58	2.47	1.88 - 3.07	4.66	3.45 - 5.88
MONO# (10 ³ /μL)	0.33	0.14 - 0.51	0.86	0.43 - 1.29	1.94	1.07 - 2.81
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.80	0.50 - 1.09	1.94	1.21 - 2.68
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.44	0.30 - 0.59	1.08	0.76 - 1.40
IG # (10 ³ /μL)	0.31	0.23 - 0.38	0.86	0.69 - 1.03	2.07	1.68 - 2.47
NEUT%	37.0	31.8 - 42.1	41.9	37.3 - 46.5	45.2	40.7 - 49.7
LYMPH%	38.8	29.1 - 48.5	31.4	24.5 - 38.3	26.6	19.9 - 33.2
MONO%	10.3	4.7 - 15.8	10.9	5.7 - 16.2	11.0	6.2 - 15.9
EO%	9.1	5.7 - 12.4	10.1	6.5 - 13.8	11.1	7.0 - 15.2
BASO%	5.0	3.2 - 6.7	5.7	4.0 - 7.3	6.1	4.4 - 7.9
IG (%)	9.5	7.5 - 11.6	10.9	8.7 - 13.1	11.8	9.8 - 13.8
RET%	6.77	5.01 - 8.54	2.73	2.02 - 3.44	1.37	0.90 - 1.83
RET# (10 ⁶ /μL)	0.1567	0.1144 - 0.1990	0.1175	0.0881 - 0.1468	0.0689	0.0448 - 0.0930
IRF (%)	27.8	1.1 - 54.5	29.3	2.9 - 55.6	27.5	3.9 - 51.2
RET-He (pg)	23.1	19.9 - 26.4	23.8	20.7 - 26.9	24.4	20.7 - 28.0



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

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Lot Number:	21751101		21751102		21751103	
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	2.23 - 2.46	4.34	4.16 - 4.51	5.04	4.84 - 5.25
HGB (g/dL)	5.39	5.12 - 5.66	11.44	10.99 - 11.90	15.01	14.41 - 15.61
HCT (%)	16.0	14.9 - 17.1	32.3	30.4 - 34.3	41.4	38.9 - 43.9
MCV (fL)	68.4	64.3 - 72.5	74.5	70.0 - 79.0	82.1	77.2 - 87.0
MCH (pg)	23.0	21.2 - 24.8	26.4	24.5 - 28.2	29.8	28.0 - 31.5
MCHC (g/dL)	33.7	30.3 - 37.0	35.4	32.2 - 38.6	36.2	33.3 - 39.1
RDW-SD (fL)	49.3	46.3 - 52.2	47.2	44.3 - 50.0	46.6	42.9 - 50.4
RDW-CV (%)	20.5	19.3 - 21.7	18.0	16.9 - 19.1	16.0	14.7 - 17.3
PLT (10 ³ /μL)	94	58 - 130	252	224 - 279	557	507 - 607
PLT-F (10 ³ /μL)	84	61 - 107	255	186 - 323	538	414 - 662
IPF (%)	19.0	16.6 - 21.5	19.9	15.9 - 23.9	19.8	15.7 - 24.0
IPF#	16.0	13.9 - 18.1	48.3	38.6 - 57.9	104.1	82.3 - 126.0
MPV (fL)	9.1	7.6 - 10.6	10.0	9.3 - 10.7	9.8	9.3 - 10.3
WBC (10 ³ /μL)	3.09	2.78 - 3.40	7.42	6.90 - 7.94	16.52	15.53 - 17.52
NEUT# (10 ³ /μL)	1.16	0.95 - 1.37	3.21	2.76 - 3.66	7.74	6.73 - 8.74
LYMPH# (10 ³ /μL)	1.13	0.82 - 1.43	2.09	1.59 - 2.60	3.93	2.91 - 4.96
MONO# (10 ³ /μL)	0.37	0.16 - 0.58	1.02	0.51 - 1.53	2.19	1.21 - 3.18
EO# (10 ³ /μL)	0.28	0.17 - 0.39	0.75	0.47 - 1.02	1.86	1.15 - 2.57
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.36	0.30 - 0.41	0.80	0.69 - 0.90
IG # (10 ³ /μL)	0.30	0.23 - 0.36	0.82	0.66 - 0.97	1.94	1.59 - 2.29
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.46	0.34 - 0.59	1.11	0.89 - 1.33
NEUT%	37.5	32.3 - 42.8	43.2	38.5 - 48.0	46.8	42.1 - 51.5
LYMPH%	36.5	27.4 - 45.6	28.2	22.0 - 34.4	23.8	17.9 - 29.8
MONO%	12.1	5.6 - 18.7	13.7	7.1 - 20.3	13.3	7.4 - 19.1
EO%	9.1	5.7 - 12.5	10.1	6.4 - 13.7	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 (%)	9.6	7.8 - 11.5	11.0	9.1 - 12.9	11.7	9.8 - 13.6
NRBC% (/100 WBC)	4.6	2.5 - 6.7	6.2	4.5 - 8.0	6.7	5.4 - 8.0
RET%	5.32	4.31 - 6.33	2.25	1.78 - 2.72	1.32	0.83 - 1.80
RET# (10 ⁶ /μL)	0.1246	0.0972 - 0.1520	0.0976	0.0790 - 0.1161	0.0664	0.0465 - 0.0863
IRF (%)	39.6	1.6 - 77.6	41.0	4.1 - 77.9	33.0	4.6 - 61.3
RET-He (pg)	24.7	21.2 - 28.1	25.6	22.3 - 29.0	26.6	22.6 - 30.6