



XN CHECK™

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

Expiration Date:	2024-11-03		Quality Control Data Due Date #1: 23-Sep-24		Quality Control Data Due Date #2: 03-Nov-24	
Lot Number:	42251101		42251102		42251103	
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	4.33	4.16 - 4.51	5.03	4.83 - 5.23
HGB (g/dL)	5.5	5.3 - 5.8	12.1	11.6 - 12.6	15.5	14.9 - 16.2
HCT (%)	16.3	15.2 - 17.5	34.8	32.7 - 36.8	43.5	40.9 - 46.1
MCV (fL)	70.6	66.3 - 74.8	80.2	75.4 - 85.1	86.5	81.3 - 91.7
MCH (pg)	24.0	22.0 - 25.9	27.9	25.9 - 29.8	30.9	29.1 - 32.8
MCHC (g/dL)	34.0	30.6 - 37.3	34.7	31.6 - 37.9	35.7	32.9 - 38.6
RDW-SD (fL)	46.6	43.8 - 49.4	47.0	44.1 - 49.8	49.5	45.6 - 53.5
RDW-CV (%)	18.4	17.3 - 19.5	16.1	15.2 - 17.1	15.7	14.5 - 17.0
PLT (10 ³ /μL)	95	59 - 132	236	198 - 274	529	460 - 597
PLT-F (10 ³ /μL)	87	63 - 110	234	171 - 297	506	390 - 623
IPF (%)	19.0	16.5 - 21.5	20.2	16.1 - 24.2	20.0	15.8 - 24.2
IPF#	16.5	14.3 - 18.6	45.9	36.8 - 55.1	99.6	78.7 - 120.5
MPV (fL)	8.8	7.4 - 10.2	9.6	8.9 - 10.4	9.5	8.7 - 10.2
WBC (10 ³ /μL)	3.00	2.61 - 3.39	6.83	6.15 - 7.52	16.08	14.63 - 17.53
NEUT# (10 ³ /μL)	1.16	0.95 - 1.37	2.98	2.56 - 3.40	7.81	6.79 - 8.82
LYMPH# (10 ³ /μL)	1.05	0.77 - 1.33	2.06	1.57 - 2.55	3.66	2.70 - 4.61
MONO# (10 ³ /μL)	0.36	0.16 - 0.57	0.75	0.37 - 1.12	2.01	1.11 - 2.92
EO# (10 ³ /μL)	0.28	0.18 - 0.39	0.71	0.45 - 0.98	1.83	1.13 - 2.53
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.28 - 0.38	0.77	0.67 - 0.88
IG # (10 ³ /μL)	0.30	0.24 - 0.36	0.76	0.61 - 0.90	1.96	1.61 - 2.31
NRBC# (10 ³ /μL)	0.14	0.08 - 0.21	0.43	0.31 - 0.54	1.12	0.90 - 1.34
NEUT%	38.7	33.3 - 44.1	43.6	38.8 - 48.4	48.5	43.7 - 53.4
LYMPH%	34.9	26.2 - 43.7	30.1	23.5 - 36.8	22.7	17.0 - 28.4
MONO%	12.1	5.6 - 18.6	11.0	5.7 - 16.2	12.5	7.0 - 18.0
EO%	9.5	6.0 - 13.0	10.5	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	4.2 - 5.4
IG (%)	10.0	8.1 - 11.9	11.1	9.2 - 13.0	12.2	10.2 - 14.1
NRBC% (/100 WBC)	4.8	2.6 - 7.0	6.2	4.5 - 8.0	7.0	5.6 - 8.3
RET%	5.42	4.39 - 6.45	2.35	1.86 - 2.85	1.23	0.77 - 1.68
RET# (10 ⁶ /μL)	0.1253	0.0977 - 0.1529	0.1020	0.0826 - 0.1214	0.0616	0.0431 - 0.0801
IRF (%)	30.4	1.2 - 59.6	34.7	3.5 - 65.8	27.4	3.8 - 50.9
RET-He (pg)	23.9	20.6 - 27.3	25.1	21.8 - 28.3	26.9	22.9 - 30.9



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-11-03		Quality Control Data Due Date #1: 23-Sep-24		Quality Control Data Due Date #2: 03-Nov-24	
Lot Number:	42251101		42251102		42251103	
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	2.17 - 2.40	4.31	4.14 - 4.49	5.02	4.82 - 5.23
HGB (g/dL)	5.5	5.3 - 5.8	12.1	11.6 - 12.5	15.5	14.9 - 16.2
HCT (%)	16.2	15.1 - 17.3	34.5	32.5 - 36.6	43.4	40.8 - 46.0
MCV (fL)	70.8	66.5 - 75.0	80.1	75.3 - 84.9	86.4	81.2 - 91.6
MCH (pg)	24.2	22.2 - 26.1	27.9	26.0 - 29.9	30.9	29.1 - 32.8
MCHC (g/dL)	34.1	30.7 - 37.5	34.9	31.8 - 38.0	35.8	32.9 - 38.6
RDW-SD (fL)	47.6	44.7 - 50.4	47.1	44.2 - 49.9	49.9	45.9 - 53.9
RDW-CV (%)	18.7	17.6 - 19.8	16.3	15.3 - 17.3	15.8	14.6 - 17.1
PLT (10 ³ /μL)	97	68 - 126	238	205 - 272	533	475 - 592
MPV (fL)	8.7	7.6 - 9.9	9.6	8.8 - 10.3	9.4	8.7 - 10.1
WBC (10 ³ /μL)	3.21	2.70 - 3.72	7.54	6.56 - 8.52	17.77	15.81 - 19.72
NEUT# (10 ³ /μL)	1.15	0.94 - 1.36	3.00	2.58 - 3.42	7.81	6.80 - 8.83
LYMPH# (10 ³ /μL)	1.15	0.84 - 1.46	2.29	1.74 - 2.84	4.16	3.08 - 5.24
MONO# (10 ³ /μL)	0.34	0.15 - 0.52	0.74	0.37 - 1.11	1.92	1.06 - 2.79
EO# (10 ³ /μL)	0.28	0.18 - 0.39	0.72	0.46 - 0.99	1.81	1.12 - 2.50
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.41	0.28 - 0.54	1.06	0.74 - 1.37
IG # (10 ³ /μL)	0.30	0.22 - 0.37	0.78	0.62 - 0.94	2.02	1.64 - 2.41
NEUT%	37.4	32.2 - 42.7	41.9	37.3 - 46.5	46.6	42.0 - 51.3
LYMPH%	37.4	28.1 - 46.8	32.0	24.9 - 39.0	24.8	18.6 - 31.0
MONO%	10.9	5.0 - 16.8	10.3	5.4 - 15.3	11.5	6.4 - 16.5
EO%	9.2	5.8 - 12.6	10.1	6.5 - 13.8	10.8	6.8 - 14.8
BASO%	5.1	3.3 - 6.9	5.7	4.0 - 7.4	6.3	4.5 - 8.1
IG (%)	9.7	7.7 - 11.8	10.9	8.7 - 13.1	12.1	10.0 - 14.1
RET%	6.56	4.86 - 8.27	2.75	2.03 - 3.46	1.26	0.83 - 1.69
RET# (10 ⁶ /μL)	0.1502	0.1097 - 0.1908	0.1184	0.0888 - 0.1481	0.0632	0.0411 - 0.0853
IRF (%)	23.6	0.9 - 46.3	25.3	2.5 - 48.0	24.8	3.5 - 46.2
RET-He (pg)	22.5	19.4 - 25.7	23.3	20.2 - 26.3	24.4	20.8 - 28.1



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

Expiration Date:	2024-11-03		Quality Control Data Due Date #1: 23-Sep-24		Quality Control Data Due Date #2: 03-Nov-24	
Lot Number:	42251101		42251102		42251103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.35	2.23 - 2.46	4.40	4.22 - 4.58	5.11	4.90 - 5.31
HGB (g/dL)	5.52	5.25 - 5.80	12.11	11.62 - 12.59	15.61	14.99 - 16.24
HCT (%)	16.3	15.2 - 17.5	34.3	32.2 - 36.3	43.3	40.7 - 45.9
MCV (fL)	69.6	65.4 - 73.7	77.9	73.2 - 82.6	84.9	79.8 - 90.0
MCH (pg)	23.5	21.6 - 25.4	27.5	25.6 - 29.4	30.6	28.7 - 32.4
MCHC (g/dL)	33.8	30.4 - 37.2	35.3	32.1 - 38.5	36.0	33.1 - 38.9
RDW-SD (fL)	45.0	42.3 - 47.7	45.4	42.6 - 48.1	49.9	45.9 - 53.9
RDW-CV (%)	18.5	17.4 - 19.6	16.6	15.6 - 17.6	16.7	15.3 - 18.0
PLT (10 ³ /μL)	100	62 - 139	243	204 - 282	545	475 - 616
PLT-F (10 ³ /μL)	88	65 - 112	242	176 - 307	519	400 - 639
IPF (%)	19.0	16.6 - 21.5	20.0	16.0 - 24.1	20.1	15.9 - 24.4
IPF#	16.8	14.7 - 19.0	47.2	37.8 - 56.7	103.1	81.4 - 124.7
MPV (fL)	9.9	8.3 - 11.5	10.8	9.9 - 11.6	10.6	9.7 - 11.4
WBC (10 ³ /μL)	3.00	2.61 - 3.39	6.81	6.13 - 7.49	15.98	14.54 - 17.42
NEUT# (10 ³ /μL)	1.15	0.94 - 1.36	2.95	2.53 - 3.36	7.74	6.73 - 8.75
LYMPH# (10 ³ /μL)	1.06	0.77 - 1.34	2.08	1.58 - 2.58	3.63	2.69 - 4.58
MONO# (10 ³ /μL)	0.36	0.16 - 0.56	0.75	0.38 - 1.13	2.05	1.13 - 2.97
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.70	0.44 - 0.96	1.79	1.11 - 2.47
BASO# (10 ³ /μL)	0.14	0.11 - 0.18	0.33	0.27 - 0.38	0.77	0.67 - 0.87
IG # (10 ³ /μL)	0.30	0.23 - 0.36	0.75	0.61 - 0.89	1.94	1.59 - 2.29
NRBC# (10 ³ /μL)	0.14	0.08 - 0.20	0.42	0.30 - 0.53	1.11	0.89 - 1.34
NEUT%	38.4	33.0 - 43.8	43.3	38.5 - 48.0	48.4	43.6 - 53.3
LYMPH%	35.3	26.4 - 44.1	30.6	23.8 - 37.3	22.7	17.0 - 28.4
MONO%	11.9	5.5 - 18.4	11.1	5.8 - 16.4	12.8	7.2 - 18.5
EO%	9.6	6.0 - 13.1	10.3	6.6 - 14.0	11.2	7.1 - 15.3
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	12.2	10.2 - 14.1
NRBC% (/100 WBC)	4.8	2.6 - 7.0	6.1	4.4 - 7.8	7.0	5.6 - 8.3
RET%	5.07	4.10 - 6.03	2.19	1.73 - 2.65	1.15	0.72 - 1.57
RET# (10 ⁶ /μL)	0.1189	0.0928 - 0.1451	0.0962	0.0779 - 0.1145	0.0587	0.0411 - 0.0762
IRF (%)	31.9	1.3 - 62.6	36.2	3.6 - 68.7	28.8	4.0 - 53.6
RET-He (pg)	24.1	20.7 - 27.4	25.2	21.9 - 28.4	27.1	23.0 - 31.1