



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:	42271101		42271102		42271103	
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	4.27	4.10 - 4.44	5.04	4.84 - 5.24
HGB (g/dL)	5.6	5.3 - 5.9	11.9	11.4 - 12.4	15.5	14.9 - 16.2
HCT (%)	16.3	15.2 - 17.5	33.9	31.8 - 35.9	43.2	40.6 - 45.8
MCV (fL)	70.2	66.0 - 74.4	79.3	74.6 - 84.1	85.7	80.6 - 90.9
MCH (pg)	24.1	22.2 - 26.1	27.8	25.9 - 29.8	30.8	29.0 - 32.7
MCHC (g/dL)	34.4	31.0 - 37.8	35.1	31.9 - 38.3	35.9	33.1 - 38.8
RDW-SD (fL)	47.9	45.0 - 50.8	49.0	46.0 - 51.9	48.9	45.0 - 52.8
RDW-CV (%)	19.1	17.9 - 20.2	17.0	16.0 - 18.1	15.7	14.4 - 17.0
PLT (10 ³ /μL)	94	58 - 130	236	199 - 274	517	449 - 584
PLT-F (10 ³ /μL)	87	64 - 111	227	166 - 289	484	373 - 596
IPF (%)	19.1	16.6 - 21.6	19.8	15.9 - 23.8	20.1	15.9 - 24.4
IPF#	16.7	14.5 - 18.8	44.0	35.2 - 52.8	96.0	75.8 - 116.2
MPV (fL)	8.8	7.4 - 10.2	10.3	9.5 - 11.2	10.1	9.3 - 10.9
WBC (10 ³ /μL)	3.06	2.66 - 3.46	7.00	6.30 - 7.70	17.23	15.68 - 18.78
NEUT# (10 ³ /μL)	1.23	1.00 - 1.45	3.13	2.69 - 3.57	8.69	7.56 - 9.82
LYMPH# (10 ³ /μL)	1.04	0.76 - 1.32	1.92	1.46 - 2.38	3.65	2.70 - 4.60
MONO# (10 ³ /μL)	0.35	0.15 - 0.55	0.87	0.43 - 1.30	2.02	1.11 - 2.93
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.75	0.47 - 1.02	2.03	1.26 - 2.80
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.34	0.28 - 0.39	0.84	0.73 - 0.94
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.79	0.64 - 0.94	2.17	1.78 - 2.56
NRBC# (10 ³ /μL)	0.16	0.09 - 0.22	0.44	0.32 - 0.55	1.10	0.88 - 1.32
NEUT%	40.0	34.4 - 45.6	44.7	39.8 - 49.6	50.4	45.4 - 55.5
LYMPH%	34.0	25.5 - 42.5	27.4	21.4 - 33.5	21.2	15.9 - 26.5
MONO%	11.4	5.3 - 17.6	12.4	6.4 - 18.3	11.7	6.6 - 16.9
EO%	9.7	6.1 - 13.3	10.7	6.8 - 14.5	11.8	7.4 - 16.1
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.9	4.3 - 5.4
IG (%)	10.2	8.3 - 12.2	11.3	9.4 - 13.2	12.6	10.6 - 14.6
NRBC% (/100 WBC)	5.1	2.8 - 7.5	6.2	4.5 - 8.0	6.4	5.2 - 7.6
RET%	6.11	4.95 - 7.27	2.59	2.04 - 3.13	1.38	0.87 - 1.89
RET# (10 ⁶ /μL)	0.1421	0.1109 - 0.1734	0.1105	0.0895 - 0.1315	0.0697	0.0488 - 0.0906
IRF (%)	35.6	1.4 - 69.7	36.3	3.6 - 69.0	32.6	4.6 - 60.6
RET-He (pg)	23.9	20.6 - 27.3	24.9	21.6 - 28.1	26.4	22.4 - 30.4



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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:	42271101		42271102		42271103	
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	4.24	4.07 - 4.41	5.06	4.86 - 5.26
HGB (g/dL)	5.6	5.3 - 5.9	11.9	11.4 - 12.3	15.6	15.0 - 16.2
HCT (%)	16.2	15.1 - 17.3	33.6	31.6 - 35.7	43.4	40.8 - 46.0
MCV (fL)	70.5	66.3 - 74.8	79.4	74.6 - 84.2	85.9	80.7 - 91.0
MCH (pg)	24.4	22.5 - 26.4	28.0	26.0 - 30.0	30.8	29.0 - 32.7
MCHC (g/dL)	34.6	31.2 - 38.1	35.3	32.1 - 38.4	35.9	33.0 - 38.8
RDW-SD (fL)	49.0	46.1 - 52.0	49.1	46.1 - 52.0	49.2	45.3 - 53.2
RDW-CV (%)	19.3	18.1 - 20.4	17.2	16.2 - 18.2	15.7	14.5 - 17.0
PLT (10 ³ /μL)	96	68 - 125	237	204 - 270	523	466 - 581
MPV (fL)	8.8	7.6 - 9.9	10.2	9.4 - 11.1	10.1	9.4 - 10.8
WBC (10 ³ /μL)	3.32	2.79 - 3.85	7.69	6.69 - 8.69	19.08	16.98 - 21.17
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.11	2.68 - 3.55	8.67	7.54 - 9.79
LYMPH# (10 ³ /μL)	1.15	0.84 - 1.45	2.15	1.63 - 2.67	4.13	3.05 - 5.20
MONO# (10 ³ /μL)	0.33	0.15 - 0.52	0.82	0.41 - 1.24	2.02	1.11 - 2.93
EO# (10 ³ /μL)	0.30	0.19 - 0.42	0.78	0.49 - 1.06	2.11	1.31 - 2.91
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.42	0.29 - 0.56	1.18	0.83 - 1.53
IG # (10 ³ /μL)	0.32	0.24 - 0.40	0.81	0.65 - 0.97	2.24	1.82 - 2.67
NEUT%	38.7	33.2 - 44.1	42.7	38.0 - 47.4	47.9	43.1 - 52.7
LYMPH%	36.2	27.1 - 45.2	29.5	23.0 - 36.0	22.8	17.1 - 28.5
MONO%	10.5	4.8 - 16.1	11.3	5.9 - 16.8	11.2	6.3 - 16.1
EO%	9.6	6.0 - 13.1	10.6	6.8 - 14.5	11.6	7.3 - 15.9
BASO%	5.1	3.3 - 6.9	5.8	4.0 - 7.5	6.5	4.6 - 8.4
IG (%)	10.0	7.9 - 12.1	11.1	8.9 - 13.3	12.4	10.3 - 14.5
RET%	7.46	5.52 - 9.40	3.04	2.25 - 3.83	1.49	0.98 - 2.00
RET# (10 ⁶ /μL)	0.1712	0.1250 - 0.2174	0.1289	0.0967 - 0.1612	0.0753	0.0490 - 0.1017
IRF (%)	30.3	1.2 - 59.5	31.2	3.1 - 59.4	30.6	4.3 - 57.0
RET-He (pg)	22.5	19.3 - 25.6	23.2	20.2 - 26.2	24.1	20.4 - 27.7



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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:	42271101		42271102		42271103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.38	2.26 - 2.49	4.32	4.15 - 4.49	5.11	4.91 - 5.32
HGB (g/dL)	5.59	5.31 - 5.87	11.92	11.44 - 12.40	15.62	14.99 - 16.24
HCT (%)	16.7	15.5 - 17.9	33.7	31.7 - 35.7	43.6	41.0 - 46.2
MCV (fL)	70.3	66.1 - 74.5	78.0	73.4 - 82.7	85.2	80.1 - 90.3
MCH (pg)	23.5	21.7 - 25.4	27.6	25.7 - 29.5	30.5	28.7 - 32.4
MCHC (g/dL)	33.5	30.1 - 36.8	35.4	32.2 - 38.5	35.8	33.0 - 38.7
RDW-SD (fL)	47.2	44.4 - 50.0	48.9	46.0 - 51.8	50.0	46.0 - 54.0
RDW-CV (%)	19.0	17.9 - 20.2	17.7	16.6 - 18.7	16.6	15.3 - 17.9
PLT (10 ³ /μL)	98	61 - 135	239	200 - 277	525	456 - 593
PLT-F (10 ³ /μL)	89	65 - 113	234	171 - 297	495	381 - 609
IPF (%)	19.1	16.6 - 21.5	19.9	15.9 - 23.9	20.0	15.8 - 24.2
IPF#	17.0	14.8 - 19.2	45.5	36.4 - 54.7	97.4	77.0 - 117.9
MPV (fL)	9.8	8.2 - 11.4	11.6	10.7 - 12.5	11.4	10.5 - 12.3
WBC (10 ³ /μL)	3.06	2.67 - 3.46	6.97	6.27 - 7.67	17.22	15.67 - 18.77
NEUT# (10 ³ /μL)	1.22	1.00 - 1.43	3.09	2.65 - 3.52	8.60	7.48 - 9.72
LYMPH# (10 ³ /μL)	1.05	0.77 - 1.34	1.94	1.47 - 2.41	3.64	2.69 - 4.58
MONO# (10 ³ /μL)	0.34	0.15 - 0.54	0.87	0.43 - 1.30	2.11	1.16 - 3.06
EO# (10 ³ /μL)	0.31	0.19 - 0.42	0.74	0.47 - 1.02	2.05	1.27 - 2.83
BASO# (10 ³ /μL)	0.15	0.11 - 0.18	0.33	0.28 - 0.39	0.83	0.72 - 0.94
IG # (10 ³ /μL)	0.31	0.24 - 0.38	0.78	0.63 - 0.93	2.14	1.76 - 2.53
NRBC# (10 ³ /μL)	0.16	0.09 - 0.22	0.43	0.32 - 0.55	1.10	0.88 - 1.32
NEUT%	39.7	34.1 - 45.2	44.3	39.4 - 49.1	49.9	44.9 - 54.9
LYMPH%	34.3	25.7 - 42.9	27.8	21.7 - 34.0	21.1	15.8 - 26.4
MONO%	11.2	5.2 - 17.3	12.5	6.5 - 18.5	12.2	6.9 - 17.6
EO%	10.0	6.3 - 13.7	10.6	6.8 - 14.5	11.9	7.5 - 16.3
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.2 - 5.4
IG (%)	10.1	8.2 - 12.0	11.2	9.3 - 13.1	12.4	10.5 - 14.4
NRBC% (/100 WBC)	5.1	2.7 - 7.4	6.2	4.5 - 7.9	6.4	5.2 - 7.6
RET%	5.71	4.62 - 6.79	2.43	1.92 - 2.94	1.29	0.81 - 1.77
RET# (10 ⁶ /μL)	0.1356	0.1058 - 0.1654	0.1051	0.0852 - 0.1251	0.0661	0.0462 - 0.0859
IRF (%)	36.6	1.5 - 71.7	37.1	3.7 - 70.5	33.2	4.6 - 61.7
RET-He (pg)	24.1	20.7 - 27.4	25.0	21.8 - 28.3	26.5	22.5 - 30.5