



XN CHECK™

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

Expiration Date:	2024-10-06		Quality Control Data Due Date #1: 26-Aug-24		Quality Control Data Due Date #2: 06-Oct-24	
Lot Number:	41991101		41991102		41991103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁶ /μL)	2.35	2.24 - 2.47	4.25	4.08 - 4.42	5.04	4.84 - 5.25
HGB (g/dL)	5.4	5.1 - 5.7	11.7	11.2 - 12.1	15.4	14.8 - 16.0
HCT (%)	16.1	15.0 - 17.2	33.4	31.4 - 35.4	43.4	40.8 - 46.0
MCV (fL)	68.4	64.3 - 72.5	78.7	73.9 - 83.4	86.0	80.8 - 91.2
MCH (pg)	23.0	21.2 - 24.8	27.4	25.5 - 29.3	30.6	28.7 - 32.4
MCHC (g/dL)	33.6	30.3 - 37.0	34.9	31.7 - 38.0	35.5	32.7 - 38.4
RDW-SD (fL)	45.5	42.8 - 48.2	49.1	46.1 - 52.0	50.1	46.1 - 54.1
RDW-CV (%)	18.8	17.6 - 19.9	17.2	16.2 - 18.3	16.0	14.7 - 17.3
PLT (10 ³ /μL)	93	57 - 128	229	192 - 266	527	458 - 595
PLT-F (10 ³ /μL)	86	63 - 109	221	161 - 281	492	379 - 606
IPF (%)	19.1	16.6 - 21.6	19.9	15.9 - 23.9	19.8	15.7 - 24.0
IPF#	16.4	14.3 - 18.5	42.9	34.3 - 51.5	96.1	75.9 - 116.3
MPV (fL)	8.8	7.4 - 10.2	9.6	8.9 - 10.4	9.5	8.7 - 10.3
WBC (10 ³ /μL)	3.10	2.70 - 3.50	7.00	6.30 - 7.70	16.51	15.02 - 18.00
NEUT# (10 ³ /μL)	1.23	1.01 - 1.45	3.02	2.60 - 3.44	7.96	6.93 - 9.00
LYMPH# (10 ³ /μL)	1.05	0.76 - 1.33	2.00	1.52 - 2.48	4.06	3.01 - 5.12
MONO# (10 ³ /μL)	0.38	0.17 - 0.60	0.91	0.46 - 1.37	1.82	1.00 - 2.64
EO# (10 ³ /μL)	0.29	0.18 - 0.40	0.73	0.46 - 1.00	1.87	1.16 - 2.58
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.34	0.28 - 0.39	0.80	0.69 - 0.90
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.77	0.62 - 0.91	2.00	1.64 - 2.36
NRBC# (10 ³ /μL)	0.16	0.09 - 0.22	0.41	0.30 - 0.53	1.12	0.89 - 1.34
NEUT%	39.6	34.1 - 45.2	43.2	38.4 - 47.9	48.2	43.4 - 53.1
LYMPH%	33.8	25.3 - 42.2	28.6	22.3 - 34.9	24.6	18.5 - 30.8
MONO%	12.4	5.7 - 19.0	13.0	6.8 - 19.3	11.0	6.2 - 15.9
EO%	9.4	6.0 - 12.9	10.4	6.7 - 14.2	11.3	7.1 - 15.5
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	10.9	9.1 - 12.8	12.1	10.2 - 14.0
NRBC% (/100 WBC)	5.0	2.7 - 7.3	5.9	4.3 - 7.6	6.8	5.5 - 8.0
RET%	5.89	4.77 - 7.01	2.45	1.93 - 2.96	1.30	0.82 - 1.78
RET# (10 ⁶ /μL)	0.1386	0.1081 - 0.1691	0.1040	0.0842 - 0.1237	0.0654	0.0458 - 0.0851
IRF (%)	37.3	1.5 - 73.0	35.3	3.5 - 67.0	27.9	3.9 - 51.9
RET-He (pg)	24.6	21.2 - 28.1	25.7	22.4 - 29.0	27.5	23.3 - 31.6



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HEMATOLOGY CONTROL FOR SYSMEX XN-L ANALYZERS

Expiration Date:	2024-10-06		Quality Control Data Due Date #1: 26-Aug-24		Quality Control Data Due Date #2: 06-Oct-24	
Lot Number:	41991101		41991102		41991103	
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	2.21 - 2.44	4.22	4.05 - 4.39	5.05	4.85 - 5.25
HGB (g/dL)	5.4	5.1 - 5.7	11.6	11.1 - 12.1	15.4	14.8 - 16.0
HCT (%)	15.9	14.8 - 17.0	33.1	31.1 - 35.1	43.3	40.7 - 45.9
MCV (fL)	68.4	64.3 - 72.5	78.4	73.7 - 83.1	85.7	80.6 - 90.9
MCH (pg)	23.2	21.4 - 25.1	27.5	25.6 - 29.4	30.5	28.7 - 32.4
MCHC (g/dL)	34.0	30.6 - 37.4	35.1	31.9 - 38.2	35.6	32.8 - 38.5
RDW-SD (fL)	46.4	43.7 - 49.2	49.2	46.2 - 52.1	50.3	46.3 - 54.3
RDW-CV (%)	19.0	17.8 - 20.1	17.4	16.4 - 18.5	16.0	14.8 - 17.3
PLT (10 ³ /μL)	96	67 - 125	232	199 - 264	532	473 - 590
MPV (fL)	8.8	7.6 - 9.9	9.6	8.8 - 10.3	9.4	8.7 - 10.1
WBC (10 ³ /μL)	3.34	2.80 - 3.87	7.67	6.67 - 8.67	18.33	16.31 - 20.34
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.04	2.61 - 3.46	8.07	7.02 - 9.12
LYMPH# (10 ³ /μL)	1.16	0.85 - 1.47	2.26	1.72 - 2.81	4.65	3.44 - 5.85
MONO# (10 ³ /μL)	0.35	0.16 - 0.55	0.83	0.41 - 1.24	1.80	0.99 - 2.61
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.75	0.47 - 1.03	1.94	1.20 - 2.67
BASO# (10 ³ /μL)	0.16	0.10 - 0.22	0.41	0.28 - 0.54	1.08	0.76 - 1.41
IG # (10 ³ /μL)	0.32	0.24 - 0.39	0.79	0.63 - 0.94	2.09	1.69 - 2.48
NEUT%	38.2	32.9 - 43.6	41.7	37.1 - 46.2	46.0	41.4 - 50.6
LYMPH%	36.4	27.3 - 45.4	31.1	24.2 - 37.9	26.5	19.9 - 33.1
MONO%	11.1	5.1 - 17.0	11.3	5.9 - 16.8	10.3	5.7 - 14.8
EO%	9.3	5.8 - 12.7	10.3	6.6 - 14.0	11.0	7.0 - 15.1
BASO%	5.1	3.3 - 6.9	5.6	3.9 - 7.3	6.2	4.4 - 8.0
IG (%)	9.9	7.8 - 12.0	10.8	8.6 - 13.0	11.9	9.9 - 13.9
RET%	7.15	5.29 - 9.01	2.83	2.10 - 3.57	1.29	0.85 - 1.73
RET# (10 ⁶ /μL)	0.1662	0.1213 - 0.2111	0.1195	0.0896 - 0.1493	0.0652	0.0424 - 0.0880
IRF (%)	31.3	1.3 - 61.3	31.4	3.1 - 59.6	27.5	3.8 - 51.1
RET-He (pg)	23.2	20.0 - 26.5	24.0	20.9 - 27.2	25.2	21.4 - 28.9



XN CHECK™

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

Expiration Date:	2024-10-06		Quality Control Data Due Date #1: 26-Aug-24		Quality Control Data Due Date #2: 06-Oct-24	
Lot Number:	41991101		41991102		41991103	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ⁹ /μL)	2.39	2.27 - 2.51	4.29	4.12 - 4.47	5.11	4.91 - 5.31
HGB (g/dL)	5.37	5.10 - 5.64	11.66	11.19 - 12.12	15.47	14.85 - 16.08
HCT (%)	16.3	15.1 - 17.4	33.2	31.2 - 35.2	43.2	40.6 - 45.8
MCV (fL)	68.0	63.9 - 72.1	77.4	72.7 - 82.0	84.6	79.5 - 89.7
MCH (pg)	22.5	20.7 - 24.3	27.1	25.2 - 29.0	30.3	28.4 - 32.1
MCHC (g/dL)	33.0	29.7 - 36.3	35.1	31.9 - 38.2	35.8	32.9 - 38.6
RDW-SD (fL)	45.2	42.4 - 47.9	49.4	46.4 - 52.4	51.5	47.4 - 55.6
RDW-CV (%)	19.0	17.9 - 20.1	18.1	17.0 - 19.1	17.1	15.8 - 18.5
PLT (10 ³ /μL)	96	60 - 133	233	196 - 270	537	467 - 606
PLT-F (10 ³ /μL)	88	64 - 112	228	166 - 289	503	388 - 619
IPF (%)	19.1	16.6 - 21.5	19.9	15.9 - 23.8	19.9	15.7 - 24.1
IPF#	16.8	14.6 - 18.9	44.1	35.3 - 52.9	98.7	77.9 - 119.4
MPV (fL)	9.9	8.3 - 11.5	10.9	10.0 - 11.7	10.7	9.8 - 11.5
WBC (10 ³ /μL)	3.13	2.72 - 3.53	6.99	6.29 - 7.69	16.48	14.99 - 17.96
NEUT# (10 ³ /μL)	1.22	1.00 - 1.44	3.01	2.59 - 3.43	7.84	6.82 - 8.86
LYMPH# (10 ³ /μL)	1.08	0.79 - 1.37	2.01	1.53 - 2.49	4.12	3.05 - 5.19
MONO# (10 ³ /μL)	0.38	0.17 - 0.59	0.93	0.46 - 1.39	1.81	1.00 - 2.63
EO# (10 ³ /μL)	0.30	0.18 - 0.41	0.71	0.45 - 0.98	1.90	1.18 - 2.63
BASO# (10 ³ /μL)	0.15	0.11 - 0.19	0.34	0.28 - 0.39	0.80	0.69 - 0.90
IG # (10 ³ /μL)	0.31	0.25 - 0.38	0.76	0.62 - 0.91	1.98	1.62 - 2.33
NRBC# (10 ³ /μL)	0.15	0.09 - 0.22	0.41	0.30 - 0.52	1.12	0.90 - 1.35
NEUT%	39.0	33.6 - 44.5	43.0	38.3 - 47.7	47.6	42.8 - 52.4
LYMPH%	34.6	25.9 - 43.2	28.7	22.4 - 35.1	25.0	18.8 - 31.3
MONO%	12.1	5.6 - 18.7	13.3	6.9 - 19.6	11.0	6.2 - 15.8
EO%	9.4	5.9 - 12.9	10.2	6.5 - 13.9	11.6	7.3 - 15.8
BASO%	4.8	3.9 - 5.7	4.8	4.2 - 5.4	4.8	4.3 - 5.4
IG (%)	10.0	8.1 - 11.9	10.9	9.1 - 12.8	12.0	10.1 - 13.9
NRBC% (/100 WBC)	4.9	2.7 - 7.2	5.9	4.2 - 7.5	6.8	5.5 - 8.1
RET%	5.50	4.45 - 6.54	2.29	1.81 - 2.77	1.22	0.77 - 1.67
RET# (10 ⁶ /μL)	0.1314	0.1025 - 0.1603	0.0983	0.0796 - 0.1170	0.0624	0.0437 - 0.0811
IRF (%)	39.4	1.6 - 77.1	37.8	3.8 - 71.9	28.6	4.0 - 53.3
RET-He (pg)	24.7	21.3 - 28.2	25.8	22.5 - 29.2	27.6	23.5 - 31.7