



e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XE-5000™ and XE-2100™ ANALYZERS
OPEN MODE ASSAY

Expiration Date:		2025-01-13		Quality Control Data Due Date #1: 02-Dec-24		Quality Control Data Due Date #2: 13-Jan-25	
Lot Number:		42970810		42970811		42970812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.37	2.28 - 2.47	4.35	4.22 - 4.48	5.26	5.11 - 5.42	
HGB (g/dL)	5.6	5.4 - 5.8	12.2	11.9 - 12.6	16.3	15.8 - 16.8	
HCT (%)	16.9	15.9 - 18.0	35.6	33.8 - 37.4	45.8	43.6 - 48.1	
MCV (fL)	71.4	67.1 - 75.7	81.8	76.9 - 86.7	87.1	82.8 - 91.5	
MCH (pg)	23.5	22.4 - 24.7	28.1	27.0 - 29.2	30.9	29.7 - 32.1	
MCHC (g/dL)	33.0	30.3 - 35.6	34.4	31.9 - 36.8	35.5	33.0 - 38.0	
PLT (10 ⁹ /L)	54	42 - 67	211	190 - 232	479	441 - 517	
RDW-SD (fL)	48.2	43.9 - 52.5	45.8	41.7 - 50.0	43.2	39.3 - 47.1	
RDW-CV (%)	18.4	16.9 - 19.9	15.5	14.5 - 16.4	13.8	13.0 - 14.7	
MPV (fL)	9.4	8.2 - 10.6	9.6	8.9 - 10.4	9.7	9.0 - 10.4	
WBC (10 ⁹ /L)	3.07	2.70 - 3.44	7.60	6.92 - 8.29	18.58	17.09 - 20.07	
WBC-D (10 ⁹ /L)	2.81	2.47 - 3.15	7.02	6.39 - 7.65	17.69	16.10 - 19.28	
NEUT%	44.4	38.2 - 50.6	49.6	44.6 - 54.5	53.2	47.9 - 58.6	
LYMPH%	35.6	29.2 - 42.0	30.7	26.1 - 35.3	25.9	22.0 - 29.8	
MONO%	10.2	4.7 - 15.8	9.4	5.7 - 13.0	9.5	5.8 - 13.2	
EO%	9.7	6.0 - 13.4	10.4	6.6 - 14.3	11.4	7.3 - 15.5	
BASO%	63.7	56.7 - 70.7	67.7	63.0 - 72.4	73.3	70.4 - 76.3	
NEUT# (10 ⁹ /L)	1.36	1.09 - 1.64	3.77	3.20 - 4.33	9.89	8.61 - 11.18	
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.34	2.33	1.89 - 2.77	4.81	3.99 - 5.63	
MONO# (10 ⁹ /L)	0.31	0.14 - 0.49	0.71	0.41 - 1.01	1.76	1.06 - 2.46	
EO# (10 ⁹ /L)	0.30	0.18 - 0.42	0.79	0.48 - 1.10	2.12	1.34 - 2.90	
BASO# (10 ⁹ /L)	1.95	1.60 - 2.31	5.15	4.48 - 5.81	13.62	12.26 - 14.99	
NRBC# (10 ⁹ /L)	0.17	0.07 - 0.26	0.46	0.31 - 0.61	0.81	0.63 - 0.98	
NRBC% (/100 WBC)	5.8	2.6 - 9.0	6.4	4.3 - 8.5	4.5	3.6 - 5.5	
PLT-O (10 ⁹ /L)	55	36 - 74	206	171 - 241	451	383 - 519	
RET# (10 ¹² /L)	0.1307	0.0902 - 0.1713	0.1035	0.0724 - 0.1345	0.0504	0.0363 - 0.0645	
RET%	5.51	3.97 - 7.05	2.38	1.74 - 3.02	0.96	0.62 - 1.29	
IRF (%)	23.1	3.9 - 42.2	17.9	1.4 - 34.3	11.8	0.6 - 23.0	
IG (#)	0.32	0.24 - 0.40	0.89	0.70 - 1.07	2.32	1.86 - 2.79	
IG (%)	10.3	8.2 - 12.5	11.7	9.5 - 13.9	12.5	10.1 - 14.9	
HPC (#)	0.013	0.009 - 0.016	0.034	0.026 - 0.043	0.094	0.071 - 0.118	
RET-He (pg)	24.2	20.8 - 27.6	25.0	21.5 - 28.5	26.9	22.6 - 31.2	
IPF (%)	21.9	17.8 - 26.1	21.7	17.6 - 25.9	22.3	18.1 - 26.5	

*Not all parameters are available on all analyzer models

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PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.37	2.28 - 2.47	4.35	4.22 - 4.48	5.18	5.03 - 5.34	
HGB (g/dL)	5.6	5.4 - 5.8	12.2	11.8 - 12.5	16.1	15.6 - 16.6	
HCT (%)	16.9	15.9 - 18.0	35.6	33.8 - 37.4	45.8	43.6 - 48.1	
MCV (fL)	71.4	67.1 - 75.7	81.8	76.9 - 86.7	88.4	84.0 - 92.9	
MCH (pg)	23.7	22.5 - 24.8	28.0	26.8 - 29.1	31.1	29.8 - 32.3	
MCHC (g/dL)	33.1	30.5 - 35.8	34.2	31.8 - 36.6	35.1	32.7 - 37.6	
PLT (10 ⁹ /L)	54	42 - 67	207	186 - 227	445	410 - 481	
RDW-SD (fL)	48.2	43.9 - 52.5	45.8	41.7 - 50.0	43.2	39.3 - 47.1	
RDW-CV (%)	18.4	16.9 - 19.9	15.5	14.5 - 16.4	13.8	13.0 - 14.7	
MPV (fL)	9.4	8.2 - 10.6	9.6	8.9 - 10.4	9.7	9.0 - 10.4	
WBC (10 ⁹ /L)	2.98	2.62 - 3.33	7.15	6.50 - 7.79	18.02	16.58 - 19.47	
WBC-D (10 ⁹ /L)	2.73	2.40 - 3.05	6.81	6.19 - 7.42	16.63	15.13 - 18.13	
NEUT%	44.4	38.2 - 50.6	49.6	44.6 - 54.5	52.9	47.6 - 58.2	
LYMPH%	35.6	29.2 - 42.0	30.8	26.2 - 35.4	25.8	21.9 - 29.6	
MONO%	10.2	4.7 - 15.8	9.1	5.5 - 12.6	9.6	5.8 - 13.3	
EO%	9.7	6.0 - 13.4	10.5	6.6 - 14.4	11.7	7.5 - 16.0	
BASO%	64.0	56.9 - 71.0	68.4	63.6 - 73.2	74.1	71.1 - 77.0	
NEUT# (10 ⁹ /L)	1.32	1.06 - 1.59	3.54	3.01 - 4.07	9.54	8.30 - 10.78	
LYMPH# (10 ⁹ /L)	1.06	0.82 - 1.30	2.20	1.78 - 2.62	4.64	3.85 - 5.43	
MONO# (10 ⁹ /L)	0.31	0.13 - 0.48	0.65	0.38 - 0.92	1.72	1.03 - 2.41	
EO# (10 ⁹ /L)	0.29	0.17 - 0.40	0.75	0.46 - 1.04	2.12	1.33 - 2.90	
BASO# (10 ⁹ /L)	1.90	1.56 - 2.25	4.89	4.25 - 5.52	13.35	12.01 - 14.68	
NRBC# (10 ⁹ /L)	0.17	0.07 - 0.26	0.46	0.31 - 0.61	0.81	0.63 - 0.98	
NRBC% (/100 WBC)	5.8	2.6 - 9.0	6.4	4.3 - 8.5	4.5	3.6 - 5.5	
PLT-O (10 ⁹ /L)	55	36 - 74	206	171 - 241	437	372 - 503	
RET# (10 ¹² /L)	0.1307	0.0902 - 0.1713	0.1035	0.0724 - 0.1345	0.0496	0.0357 - 0.0635	
RET%	5.51	3.97 - 7.05	2.38	1.74 - 3.02	0.96	0.62 - 1.29	
IRF (%)	23.1	3.9 - 42.2	17.9	1.4 - 34.3	11.8	0.6 - 23.0	
IG (#)	0.31	0.23 - 0.38	0.84	0.66 - 1.01	2.26	1.80 - 2.71	
IG (%)	10.3	8.2 - 12.5	11.7	9.5 - 13.9	12.5	10.1 - 14.9	
HPC (#)	0.013	0.009 - 0.016	0.034	0.026 - 0.043	0.094	0.071 - 0.118	
RET-He (pg)	24.2	20.8 - 27.6	25.0	21.5 - 28.5	26.9	22.6 - 31.2	
IPF (%)	21.9	17.8 - 26.1	21.7	17.6 - 25.9	22.3	18.1 - 26.5	

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