



# e-CHECK™ (XE)

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

Expiration Date:		2024-09-23		Quality Control Data Due Date #1: 12-Aug-24		Quality Control Data Due Date #2: 23-Sep-24	
Lot Number:		41850810		41850811		41850812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 <sup>12</sup> /L)	2.28	2.19 - 2.37	4.37	4.24 - 4.51	5.32	5.16 - 5.48	
HGB (g/dL)	5.5	5.3 - 5.7	11.9	11.6 - 12.3	15.9	15.4 - 16.4	
HCT (%)	16.8	15.8 - 17.8	35.0	33.2 - 36.7	45.3	43.0 - 47.6	
MCV (fL)	73.6	69.2 - 78.0	80.0	75.2 - 84.7	85.1	80.8 - 89.3	
MCH (pg)	24.2	23.0 - 25.4	27.3	26.2 - 28.4	29.9	28.7 - 31.1	
MCHC (g/dL)	32.9	30.2 - 35.5	34.1	31.7 - 36.5	35.1	32.7 - 37.6	
PLT (10 <sup>9</sup> /L)	58	44 - 71	224	201 - 246	537	494 - 580	
RDW-SD (fL)	46.2	42.1 - 50.4	44.9	40.9 - 48.9	43.5	39.6 - 47.4	
RDW-CV (%)	17.3	15.9 - 18.7	15.4	14.5 - 16.4	14.2	13.4 - 15.1	
MPV (fL)	9.3	8.1 - 10.6	9.6	8.8 - 10.4	9.7	9.0 - 10.4	
WBC (10 <sup>9</sup> /L)	3.08	2.71 - 3.44	7.07	6.43 - 7.71	18.50	17.02 - 19.98	
WBC-D (10 <sup>9</sup> /L)	2.86	2.52 - 3.20	6.56	5.97 - 7.15	17.30	15.74 - 18.85	
NEUT%	43.7	37.6 - 49.8	48.8	43.9 - 53.7	52.0	46.8 - 57.2	
LYMPH%	37.8	31.0 - 44.7	32.0	27.2 - 36.8	26.6	22.6 - 30.6	
MONO%	9.4	4.3 - 14.5	9.0	5.5 - 12.6	9.9	6.0 - 13.7	
EO%	9.0	5.6 - 12.5	10.2	6.4 - 14.0	11.6	7.4 - 15.7	
BASO%	61.0	54.3 - 67.8	66.4	61.7 - 71.0	71.9	69.0 - 74.8	
NEUT# (10 <sup>9</sup> /L)	1.34	1.07 - 1.61	3.45	2.93 - 3.97	9.61	8.36 - 10.86	
LYMPH# (10 <sup>9</sup> /L)	1.16	0.90 - 1.43	2.26	1.83 - 2.69	4.92	4.08 - 5.76	
MONO# (10 <sup>9</sup> /L)	0.29	0.13 - 0.45	0.64	0.37 - 0.91	1.83	1.10 - 2.56	
EO# (10 <sup>9</sup> /L)	0.28	0.17 - 0.39	0.72	0.44 - 1.00	2.14	1.35 - 2.93	
BASO# (10 <sup>9</sup> /L)	1.88	1.54 - 2.22	4.69	4.08 - 5.30	13.30	11.97 - 14.63	
NRBC# (10 <sup>9</sup> /L)	0.16	0.07 - 0.25	0.45	0.30 - 0.60	1.13	0.88 - 1.38	
NRBC% (/100 WBC)	5.6	2.5 - 8.7	6.8	4.5 - 9.0	6.5	5.2 - 7.9	
PLT-O (10 <sup>9</sup> /L)	59	39 - 79	216	179 - 253	513	436 - 590	
RET# (10 <sup>12</sup> /L)	0.1375	0.0949 - 0.1802	0.1053	0.0737 - 0.1369	0.0541	0.0389 - 0.0692	
RET%	6.03	4.34 - 7.71	2.41	1.76 - 3.06	1.02	0.66 - 1.37	
IRF (%)	41.2	7.0 - 75.4	34.2	2.7 - 65.7	22.6	1.1 - 44.2	
IG (#)	0.31	0.24 - 0.39	0.81	0.64 - 0.98	2.26	1.81 - 2.71	
IG (%)	10.2	8.1 - 12.4	11.4	9.3 - 13.6	12.2	9.9 - 14.5	
HPC (#)	0.013	0.009 - 0.017	0.032	0.024 - 0.040	0.092	0.069 - 0.115	
RET-He (pg)	23.3	20.0 - 26.5	24.0	20.6 - 27.3	25.9	21.7 - 30.0	
IPF (%)	21.5	17.5 - 25.6	21.9	17.7 - 26.1	22.1	17.9 - 26.4	

\*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 <sup>12</sup> /L)	2.28	2.19 - 2.37	4.37	4.24 - 4.51	5.24	5.09 - 5.40	
HGB (g/dL)	5.5	5.3 - 5.8	11.9	11.5 - 12.2	15.7	15.3 - 16.2	
HCT (%)	16.8	15.8 - 17.8	35.0	33.2 - 36.7	45.3	43.0 - 47.6	
MCV (fL)	73.6	69.2 - 78.0	80.0	75.2 - 84.7	86.4	82.0 - 90.7	
MCH (pg)	24.3	23.1 - 25.5	27.1	26.1 - 28.2	30.0	28.8 - 31.2	
MCHC (g/dL)	33.0	30.4 - 35.7	34.0	31.6 - 36.3	34.8	32.3 - 37.2	
PLT (10 <sup>9</sup> /L)	58	44 - 71	219	197 - 241	500	460 - 539	
RDW-SD (fL)	46.2	42.1 - 50.4	44.9	40.9 - 48.9	43.5	39.6 - 47.4	
RDW-CV (%)	17.3	15.9 - 18.7	15.4	14.5 - 16.4	14.2	13.4 - 15.1	
MPV (fL)	9.3	8.1 - 10.6	9.6	8.8 - 10.4	9.7	9.0 - 10.4	
WBC (10 <sup>9</sup> /L)	2.98	2.63 - 3.34	6.65	6.05 - 7.24	17.94	16.51 - 19.38	
WBC-D (10 <sup>9</sup> /L)	2.77	2.44 - 3.11	6.36	5.79 - 6.93	16.26	14.79 - 17.72	
NEUT%	43.7	37.6 - 49.8	48.8	43.9 - 53.7	51.6	46.5 - 56.8	
LYMPH%	37.8	31.0 - 44.7	32.1	27.3 - 37.0	26.5	22.5 - 30.4	
MONO%	9.4	4.3 - 14.5	8.8	5.3 - 12.2	10.0	6.1 - 13.9	
EO%	9.0	5.6 - 12.5	10.3	6.5 - 14.1	11.9	7.6 - 16.2	
BASO%	61.4	54.6 - 68.1	67.0	62.3 - 71.7	72.6	69.7 - 75.5	
NEUT# (10 <sup>9</sup> /L)	1.30	1.04 - 1.56	3.24	2.76 - 3.73	9.27	8.06 - 10.47	
LYMPH# (10 <sup>9</sup> /L)	1.13	0.87 - 1.39	2.14	1.73 - 2.54	4.75	3.94 - 5.55	
MONO# (10 <sup>9</sup> /L)	0.28	0.12 - 0.44	0.58	0.34 - 0.83	1.79	1.07 - 2.51	
EO# (10 <sup>9</sup> /L)	0.27	0.16 - 0.38	0.68	0.42 - 0.95	2.14	1.35 - 2.93	
BASO# (10 <sup>9</sup> /L)	1.83	1.50 - 2.16	4.45	3.88 - 5.03	13.03	11.73 - 14.34	
NRBC# (10 <sup>9</sup> /L)	0.16	0.07 - 0.25	0.45	0.30 - 0.60	1.13	0.88 - 1.38	
NRBC% (/100 WBC)	5.6	2.5 - 8.7	6.8	4.5 - 9.0	6.5	5.2 - 7.9	
PLT-O (10 <sup>9</sup> /L)	59	39 - 79	216	179 - 253	498	423 - 573	
RET# (10 <sup>12</sup> /L)	0.1375	0.0949 - 0.1802	0.1053	0.0737 - 0.1369	0.0533	0.0384 - 0.0682	
RET%	6.03	4.34 - 7.71	2.41	1.76 - 3.06	1.02	0.66 - 1.37	
IRF (%)	41.2	7.0 - 75.4	34.2	2.7 - 65.7	22.6	1.1 - 44.2	
IG (#)	0.30	0.23 - 0.38	0.76	0.60 - 0.92	2.19	1.75 - 2.63	
IG (%)	10.2	8.1 - 12.4	11.4	9.3 - 13.6	12.2	9.9 - 14.5	
HPC (#)	0.013	0.009 - 0.017	0.032	0.024 - 0.040	0.092	0.069 - 0.115	
RET-He (pg)	23.3	20.0 - 26.5	24.0	20.6 - 27.3	25.9	21.7 - 30.0	
IPF (%)	21.5	17.5 - 25.6	21.9	17.7 - 26.1	22.1	17.9 - 26.4	

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