



# e-CHECK™ (XE)

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

Expiration Date:		2024-07-29		Quality Control Data Due Date #1: 17-Jun-24		Quality Control Data Due Date #2: 29-Jul-24	
Lot Number:		41290810		41290811		41290812	
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	4.28	4.15 - 4.41	5.19	5.03 - 5.34	
HGB (g/dL)	5.4	5.2 - 5.6	11.3	11.0 - 11.6	15.9	15.4 - 16.4	
HCT (%)	16.4	15.4 - 17.4	33.1	31.5 - 34.8	45.1	42.9 - 47.4	
MCV (fL)	71.9	67.5 - 76.2	77.4	72.7 - 82.0	87.0	82.6 - 91.3	
MCH (pg)	23.6	22.4 - 24.8	26.4	25.3 - 27.4	30.7	29.5 - 31.9	
MCHC (g/dL)	32.9	30.3 - 35.5	34.1	31.7 - 36.5	35.3	32.8 - 37.8	
PLT (10 <sup>9</sup> /L)	56	43 - 68	222	199 - 244	538	495 - 581	
RDW-SD (fL)	46.7	42.5 - 50.9	44.7	40.7 - 48.7	50.7	46.2 - 55.3	
RDW-CV (%)	17.9	16.4 - 19.3	16.3	15.3 - 17.2	16.2	15.2 - 17.1	
MPV (fL)	9.7	8.4 - 10.9	9.9	9.1 - 10.7	10.1	9.4 - 10.8	
WBC (10 <sup>9</sup> /L)	3.08	2.71 - 3.45	7.21	6.56 - 7.86	19.21	17.67 - 20.75	
WBC-D (10 <sup>9</sup> /L)	2.87	2.53 - 3.22	6.63	6.04 - 7.23	18.15	16.52 - 19.78	
NEUT%	44.0	37.8 - 50.1	48.2	43.4 - 53.0	53.2	47.8 - 58.5	
LYMPH%	37.3	30.6 - 44.1	32.0	27.2 - 36.8	26.7	22.7 - 30.7	
MONO%	9.3	4.3 - 14.4	9.1	5.6 - 12.7	8.9	5.4 - 12.4	
EO%	9.3	5.8 - 12.9	10.7	6.7 - 14.7	11.2	7.2 - 15.3	
BASO%	62.0	55.2 - 68.9	66.6	62.0 - 71.3	72.1	69.2 - 75.0	
NEUT# (10 <sup>9</sup> /L)	1.36	1.08 - 1.63	3.48	2.95 - 4.00	10.21	8.88 - 11.54	
LYMPH# (10 <sup>9</sup> /L)	1.15	0.89 - 1.42	2.30	1.87 - 2.74	5.13	4.26 - 6.00	
MONO# (10 <sup>9</sup> /L)	0.29	0.13 - 0.45	0.66	0.38 - 0.93	1.71	1.03 - 2.40	
EO# (10 <sup>9</sup> /L)	0.29	0.17 - 0.40	0.77	0.47 - 1.07	2.16	1.36 - 2.96	
BASO# (10 <sup>9</sup> /L)	1.91	1.57 - 2.26	4.80	4.18 - 5.43	13.85	12.47 - 15.24	
NRBC# (10 <sup>9</sup> /L)	0.16	0.07 - 0.25	0.46	0.31 - 0.61	1.13	0.88 - 1.38	
NRBC% (/100 WBC)	5.5	2.5 - 8.5	6.8	4.6 - 9.1	6.3	4.9 - 7.6	
PLT-O (10 <sup>9</sup> /L)	56	37 - 76	210	174 - 245	517	439 - 594	
RET# (10 <sup>12</sup> /L)	0.1344	0.0927 - 0.1760	0.1017	0.0712 - 0.1322	0.0545	0.0392 - 0.0697	
RET%	5.89	4.24 - 7.54	2.38	1.73 - 3.02	1.05	0.68 - 1.42	
IRF (%)	46.7	7.9 - 85.4	40.1	3.2 - 77.0	24.2	1.2 - 47.2	
IG (#)	0.32	0.24 - 0.39	0.82	0.65 - 1.00	2.39	1.91 - 2.87	
IG (%)	10.2	8.1 - 12.4	11.4	9.3 - 13.6	12.5	10.1 - 14.8	
HPC (#)	0.012	0.008 - 0.016	0.031	0.023 - 0.038	0.095	0.071 - 0.118	
RET-He (pg)	22.9	19.7 - 26.0	23.8	20.5 - 27.1	25.3	21.2 - 29.3	
IPF (%)	21.2	17.2 - 25.3	21.7	17.6 - 25.8	22.0	17.8 - 26.1	

\*Not all parameters are available on all analyzer models

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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	4.28	4.15 - 4.41	5.11	4.95 - 5.26	
HGB (g/dL)	5.4	5.2 - 5.6	11.2	10.9 - 11.6	15.8	15.3 - 16.2	
HCT (%)	16.4	15.4 - 17.4	33.1	31.5 - 34.8	45.1	42.9 - 47.4	
MCV (fL)	71.9	67.5 - 76.2	77.4	72.7 - 82.0	88.3	83.9 - 92.7	
MCH (pg)	23.7	22.6 - 24.9	26.2	25.2 - 27.3	30.8	29.6 - 32.1	
MCHC (g/dL)	33.0	30.4 - 35.7	33.9	31.5 - 36.3	34.9	32.5 - 37.4	
PLT (10 <sup>9</sup> /L)	56	43 - 68	217	195 - 239	500	460 - 540	
RDW-SD (fL)	46.7	42.5 - 50.9	44.7	40.7 - 48.7	50.7	46.2 - 55.3	
RDW-CV (%)	17.9	16.4 - 19.3	16.3	15.3 - 17.2	16.2	15.2 - 17.1	
MPV (fL)	9.7	8.4 - 10.9	9.9	9.1 - 10.7	10.1	9.4 - 10.8	
WBC (10 <sup>9</sup> /L)	2.99	2.63 - 3.35	6.78	6.17 - 7.39	18.63	17.14 - 20.12	
WBC-D (10 <sup>9</sup> /L)	2.78	2.45 - 3.12	6.43	5.85 - 7.01	17.06	15.53 - 18.60	
NEUT%	44.0	37.8 - 50.1	48.2	43.4 - 53.0	52.9	47.6 - 58.2	
LYMPH%	37.3	30.6 - 44.1	32.1	27.3 - 36.9	26.6	22.6 - 30.5	
MONO%	9.3	4.3 - 14.4	8.9	5.4 - 12.3	9.0	5.5 - 12.5	
EO%	9.3	5.8 - 12.9	10.8	6.8 - 14.8	11.6	7.4 - 15.8	
BASO%	62.3	55.5 - 69.2	67.3	62.6 - 72.0	72.8	69.9 - 75.7	
NEUT# (10 <sup>9</sup> /L)	1.31	1.05 - 1.58	3.27	2.78 - 3.76	9.85	8.57 - 11.13	
LYMPH# (10 <sup>9</sup> /L)	1.12	0.86 - 1.37	2.18	1.76 - 2.59	4.95	4.11 - 5.79	
MONO# (10 <sup>9</sup> /L)	0.28	0.12 - 0.44	0.60	0.35 - 0.85	1.68	1.01 - 2.35	
EO# (10 <sup>9</sup> /L)	0.28	0.17 - 0.39	0.73	0.45 - 1.02	2.16	1.36 - 2.96	
BASO# (10 <sup>9</sup> /L)	1.86	1.53 - 2.20	4.56	3.97 - 5.15	13.57	12.21 - 14.93	
NRBC# (10 <sup>9</sup> /L)	0.16	0.07 - 0.25	0.46	0.31 - 0.61	1.13	0.88 - 1.38	
NRBC% (/100 WBC)	5.5	2.5 - 8.5	6.8	4.6 - 9.1	6.3	4.9 - 7.6	
PLT-O (10 <sup>9</sup> /L)	56	37 - 76	210	174 - 245	501	426 - 576	
RET# (10 <sup>12</sup> /L)	0.1344	0.0927 - 0.1760	0.1017	0.0712 - 0.1322	0.0536	0.0386 - 0.0687	
RET%	5.89	4.24 - 7.54	2.38	1.73 - 3.02	1.05	0.68 - 1.42	
IRF (%)	46.7	7.9 - 85.4	40.1	3.2 - 77.0	24.2	1.2 - 47.2	
IG (#)	0.31	0.23 - 0.38	0.78	0.61 - 0.94	2.32	1.86 - 2.78	
IG (%)	10.2	8.1 - 12.4	11.4	9.3 - 13.6	12.5	10.1 - 14.8	
HPC (#)	0.012	0.008 - 0.016	0.031	0.023 - 0.038	0.095	0.071 - 0.118	
RET-He (pg)	22.9	19.7 - 26.0	23.8	20.5 - 27.1	25.3	21.2 - 29.3	
IPF (%)	21.2	17.2 - 25.3	21.7	17.6 - 25.8	22.0	17.8 - 26.1	

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