



# e-CHECK™ (XE)

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

Expiration Date:		2024-11-18		Quality Control Data Due Date #1: 07-Oct-24		Quality Control Data Due Date #2: 18-Nov-24	
Lot Number:		42410810		42410811		42410812	
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)	2.39	2.29 - 2.48	4.31	4.18 - 4.44	5.17	5.02 - 5.33	
HGB (g/dL)	5.6	5.3 - 5.8	12.1	11.8 - 12.5	15.5	15.1 - 16.0	
HCT (%)	17.0	16.0 - 18.1	35.3	33.5 - 37.0	44.3	42.1 - 46.6	
MCV (fL)	71.4	67.1 - 75.7	81.8	76.9 - 86.8	85.8	81.5 - 90.0	
MCH (pg)	23.3	22.1 - 24.4	28.2	27.0 - 29.3	30.0	28.8 - 31.2	
MCHC (g/dL)	32.6	30.0 - 35.2	34.4	32.0 - 36.8	35.0	32.6 - 37.5	
PLT (10 <sup>9</sup> /L)	53	41 - 66	211	190 - 233	511	470 - 552	
RDW-SD (fL)	44.7	40.7 - 48.8	44.0	40.0 - 47.9	45.2	41.1 - 49.2	
RDW-CV (%)	17.3	15.9 - 18.6	14.9	14.0 - 15.8	14.7	13.8 - 15.6	
MPV (fL)	9.9	8.6 - 11.1	10.2	9.4 - 11.0	10.3	9.6 - 11.0	
WBC (10 <sup>9</sup> /L)	3.09	2.72 - 3.46	7.07	6.43 - 7.70	19.02	17.50 - 20.54	
WBC-D (10 <sup>9</sup> /L)	2.83	2.49 - 3.17	6.47	5.89 - 7.05	17.53	15.95 - 19.10	
NEUT%	45.2	38.9 - 51.5	49.0	44.1 - 53.9	52.2	47.0 - 57.4	
LYMPH%	36.3	29.7 - 42.8	30.5	25.9 - 35.0	26.5	22.5 - 30.5	
MONO%	8.8	4.1 - 13.6	10.1	6.2 - 14.0	9.9	6.0 - 13.8	
EO%	9.7	6.0 - 13.4	10.5	6.6 - 14.4	11.4	7.3 - 15.5	
BASO%	62.4	55.6 - 69.3	67.6	62.9 - 72.4	71.9	69.1 - 74.8	
NEUT# (10 <sup>9</sup> /L)	1.40	1.12 - 1.68	3.46	2.94 - 3.98	9.92	8.63 - 11.21	
LYMPH# (10 <sup>9</sup> /L)	1.12	0.86 - 1.38	2.15	1.74 - 2.56	5.04	4.19 - 5.90	
MONO# (10 <sup>9</sup> /L)	0.27	0.12 - 0.43	0.71	0.41 - 1.01	1.89	1.13 - 2.64	
EO# (10 <sup>9</sup> /L)	0.30	0.18 - 0.42	0.74	0.45 - 1.03	2.17	1.37 - 2.97	
BASO# (10 <sup>9</sup> /L)	1.93	1.58 - 2.28	4.78	4.16 - 5.40	13.68	12.31 - 15.05	
NRBC# (10 <sup>9</sup> /L)	0.16	0.07 - 0.25	0.43	0.29 - 0.57	1.11	0.86 - 1.35	
NRBC% (/100 WBC)	5.5	2.5 - 8.5	6.4	4.3 - 8.5	6.2	4.9 - 7.5	
PLT-O (10 <sup>9</sup> /L)	56	37 - 75	202	168 - 237	490	417 - 564	
RET# (10 <sup>12</sup> /L)	0.1393	0.0961 - 0.1825	0.1073	0.0751 - 0.1395	0.0595	0.0429 - 0.0762	
RET%	5.83	4.20 - 7.47	2.49	1.82 - 3.16	1.15	0.75 - 1.55	
IRF (%)	30.9	5.3 - 56.6	26.3	2.1 - 50.5	19.9	1.0 - 38.8	
IG (#)	0.32	0.24 - 0.40	0.81	0.64 - 0.97	2.32	1.85 - 2.78	
IG (%)	10.5	8.3 - 12.7	11.4	9.2 - 13.6	12.2	9.9 - 14.5	
HPC (#)	0.012	0.008 - 0.016	0.034	0.026 - 0.043	0.090	0.068 - 0.113	
RET-He (pg)	23.5	20.2 - 26.8	24.5	21.0 - 27.9	25.5	21.4 - 29.5	
IPF (%)	21.2	17.2 - 25.2	21.4	17.3 - 25.5	21.7	17.6 - 25.8	

\*Not all parameters are available on all analyzer models

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Expiration Date:		2024-11-18		Quality Control Data Due Date #1: 07-Oct-24		Quality Control Data Due Date #2: 18-Nov-24	
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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)	2.39	2.29 - 2.48	4.31	4.18 - 4.44	5.09	4.94 - 5.25	
HGB (g/dL)	5.6	5.4 - 5.8	12.1	11.7 - 12.4	15.4	14.9 - 15.8	
HCT (%)	17.0	16.0 - 18.1	35.3	33.5 - 37.0	44.3	42.1 - 46.6	
MCV (fL)	71.4	67.1 - 75.7	81.8	76.9 - 86.8	87.1	82.7 - 91.4	
MCH (pg)	23.4	22.2 - 24.6	28.0	26.9 - 29.1	30.2	29.0 - 31.4	
MCHC (g/dL)	32.8	30.1 - 35.4	34.2	31.8 - 36.6	34.7	32.3 - 37.1	
PLT (10 <sup>9</sup> /L)	53	41 - 66	207	187 - 228	475	437 - 513	
RDW-SD (fL)	44.7	40.7 - 48.8	44.0	40.0 - 47.9	45.2	41.1 - 49.2	
RDW-CV (%)	17.3	15.9 - 18.6	14.9	14.0 - 15.8	14.7	13.8 - 15.6	
MPV (fL)	9.9	8.6 - 11.1	10.2	9.4 - 11.0	10.3	9.6 - 11.0	
WBC (10 <sup>9</sup> /L)	3.00	2.64 - 3.36	6.64	6.04 - 7.24	18.45	16.97 - 19.92	
WBC-D (10 <sup>9</sup> /L)	2.75	2.42 - 3.08	6.28	5.71 - 6.84	16.48	14.99 - 17.96	
NEUT%	45.2	38.9 - 51.5	49.0	44.1 - 53.9	51.9	46.7 - 57.0	
LYMPH%	36.3	29.7 - 42.8	30.6	26.0 - 35.2	26.4	22.4 - 30.3	
MONO%	8.8	4.1 - 13.6	9.8	6.0 - 13.6	10.0	6.1 - 13.9	
EO%	9.7	6.0 - 13.4	10.6	6.7 - 14.5	11.7	7.5 - 16.0	
BASO%	62.8	55.9 - 69.7	68.3	63.5 - 73.1	72.7	69.8 - 75.6	
NEUT# (10 <sup>9</sup> /L)	1.35	1.08 - 1.63	3.26	2.77 - 3.74	9.57	8.32 - 10.81	
LYMPH# (10 <sup>9</sup> /L)	1.09	0.84 - 1.34	2.03	1.65 - 2.42	4.87	4.04 - 5.70	
MONO# (10 <sup>9</sup> /L)	0.26	0.12 - 0.41	0.65	0.38 - 0.92	1.85	1.11 - 2.59	
EO# (10 <sup>9</sup> /L)	0.29	0.17 - 0.41	0.70	0.43 - 0.98	2.17	1.36 - 2.97	
BASO# (10 <sup>9</sup> /L)	1.88	1.54 - 2.22	4.54	3.95 - 5.13	13.40	12.06 - 14.74	
NRBC# (10 <sup>9</sup> /L)	0.16	0.07 - 0.25	0.43	0.29 - 0.57	1.11	0.86 - 1.35	
NRBC% (/100 WBC)	5.5	2.5 - 8.5	6.4	4.3 - 8.5	6.2	4.9 - 7.5	
PLT-O (10 <sup>9</sup> /L)	56	37 - 75	202	168 - 237	475	404 - 547	
RET# (10 <sup>12</sup> /L)	0.1393	0.0961 - 0.1825	0.1073	0.0751 - 0.1395	0.0587	0.0422 - 0.0751	
RET%	5.83	4.20 - 7.47	2.49	1.82 - 3.16	1.15	0.75 - 1.55	
IRF (%)	30.9	5.3 - 56.6	26.3	2.1 - 50.5	19.9	1.0 - 38.8	
IG (#)	0.31	0.24 - 0.39	0.76	0.60 - 0.92	2.25	1.80 - 2.70	
IG (%)	10.5	8.3 - 12.7	11.4	9.2 - 13.6	12.2	9.9 - 14.5	
HPC (#)	0.012	0.008 - 0.016	0.034	0.026 - 0.043	0.090	0.068 - 0.113	
RET-He (pg)	23.5	20.2 - 26.8	24.5	21.0 - 27.9	25.5	21.4 - 29.5	
IPF (%)	21.2	17.2 - 25.2	21.4	17.3 - 25.5	21.7	17.6 - 25.8	

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