



# e-CHECK™

## HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS OPEN MODE ASSAY

Expiration Date:		2024-07-01		Quality Control Data Due Date #1: 20-May-24		Quality Control Data Due Date #2: 01-Jul-24	
Lot Number:		41010801		41010802		41010803	
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)	2.34	2.25 - 2.44	4.39	4.25 - 4.52	5.27	5.11 - 5.43	
HGB (g/dL)	5.9	5.7 - 6.1	12.4	12.0 - 12.8	16.3	15.8 - 16.8	
HCT (%)	17.7	16.6 - 18.8	36.0	34.2 - 37.8	46.4	44.1 - 48.7	
MCV (fL)	75.6	71.0 - 80.1	82.1	77.1 - 87.0	88.1	83.6 - 92.5	
MCH (pg)	25.2	24.0 - 26.5	28.2	27.1 - 29.4	30.9	29.7 - 32.1	
MCHC (g/dL)	33.4	30.7 - 36.1	34.4	32.0 - 36.8	35.1	32.6 - 37.5	
PLT (10 <sup>9</sup> /L)	55	42 - 67	220	198 - 242	530	488 - 573	
RDW-SD (fL)	43.4	39.5 - 47.4	43.3	39.4 - 47.2	44.4	40.4 - 48.4	
RDW-CV (%)	15.9	14.7 - 17.2	14.7	13.8 - 15.5	14.2	13.3 - 15.0	
MPV (fL)	9.5	8.3 - 10.8	9.9	9.1 - 10.7	10.0	9.3 - 10.7	
WBC (10 <sup>9</sup> /L)	3.03	2.66 - 3.39	7.22	6.57 - 7.87	17.01	15.65 - 18.37	
NEUT%	43.5	37.4 - 49.6	48.5	43.6 - 53.3	53.8	48.4 - 59.2	
LYMPH%	38.6	31.7 - 45.6	32.2	27.4 - 37.1	26.6	22.6 - 30.6	
MONO%	8.3	3.8 - 12.8	8.7	5.3 - 12.1	8.5	5.2 - 11.8	
EO%	9.5	5.9 - 13.2	10.6	6.7 - 14.5	11.1	7.1 - 15.1	
BASO%	62.5	55.7 - 69.4	68.6	63.8 - 73.4	74.7	71.0 - 78.5	
NEUT# (10 <sup>9</sup> /L)	1.32	1.05 - 1.58	3.50	2.97 - 4.02	9.15	7.96 - 10.34	
LYMPH# (10 <sup>9</sup> /L)	1.17	0.90 - 1.44	2.33	1.88 - 2.77	4.52	3.75 - 5.29	
MONO# (10 <sup>9</sup> /L)	0.25	0.11 - 0.39	0.63	0.36 - 0.89	1.45	0.87 - 2.03	
EO# (10 <sup>9</sup> /L)	0.29	0.17 - 0.40	0.77	0.47 - 1.06	1.89	1.19 - 2.59	
BASO# (10 <sup>9</sup> /L)	1.89	1.55 - 2.23	4.95	4.31 - 5.59	12.71	11.44 - 13.99	
NRBC# (10 <sup>9</sup> /L)	2.93	2.43 - 3.43	7.04	6.12 - 7.95	17.66	15.54 - 19.78	
NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A	
PLT-O (10 <sup>9</sup> /L)	59	39 - 80	229	190 - 268	542	461 - 623	
RET# (10 <sup>12</sup> /L)	0.1399	0.0965 - 0.1832	0.1129	0.0790 - 0.1467	0.0571	0.0411 - 0.0731	
RET%	5.97	4.30 - 7.64	2.57	1.88 - 3.27	1.08	0.70 - 1.46	
IRF (%)	40.9	7.0 - 74.9	36.7	2.9 - 70.5	27.7	1.4 - 54.0	
<sup>a</sup> IG (#)	0.31	0.23 - 0.38	0.82	0.65 - 0.99	2.11	1.69 - 2.53	
<sup>a</sup> IG (%)	10.12	7.99 - 12.24	11.38	9.22 - 13.54	12.41	10.05 - 14.76	
<sup>b</sup> HPC (#)	0.011	0.007 - 0.014	0.031	0.024 - 0.039	0.081	0.061 - 0.101	
<sup>c</sup> RET-He (pg)	23.2	20.0 - 26.5	24.1	20.7 - 27.4	25.8	21.7 - 30.0	
<sup>d</sup> IPF (%)	22.1	17.9 - 26.3	22.0	17.8 - 26.2	21.1	17.1 - 25.1	

<sup>a</sup>IG values are only available with the Sysmex XE-Series IG Master software.  
<sup>b</sup>HPC values are only available with the Sysmex XE-Series RET Master software.

<sup>c</sup>RET-He values are only available with the Sysmex XE-Series HPC Master  
<sup>d</sup>IPF values are only available with the Sysmex XE-Series IPF Master software.

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# e-CHECK™

## HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS CLOSED MODE ASSAY

Expiration Date:		2024-07-01		Quality Control Data Due Date #1: 20-May-24		Quality Control Data Due Date #2: 01-Jul-24	
Lot Number:		41010801		41010802		41010803	
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)	2.34	2.25 - 2.44	4.39	4.25 - 4.52	5.22	5.06 - 5.37	
HGB (g/dL)	5.9	5.7 - 6.2	12.3	12.0 - 12.7	16.1	15.6 - 16.6	
HCT (%)	17.7	16.6 - 18.8	36.0	34.2 - 37.8	46.4	44.1 - 48.7	
MCV (fL)	75.6	71.0 - 80.1	82.1	77.1 - 87.0	88.9	84.5 - 93.4	
MCH (pg)	25.4	24.1 - 26.6	28.1	27.0 - 29.2	30.9	29.7 - 32.1	
MCHC (g/dL)	33.6	30.9 - 36.2	34.2	31.8 - 36.6	34.7	32.3 - 37.2	
PLT (10 <sup>9</sup> /L)	55	42 - 67	216	194 - 237	499	459 - 539	
RDW-SD (fL)	43.0	39.1 - 46.9	42.8	39.0 - 46.7	44.4	40.4 - 48.4	
RDW-CV (%)	15.8	14.5 - 17.0	14.5	13.6 - 15.4	14.2	13.3 - 15.0	
MPV (fL)	9.5	8.3 - 10.8	9.9	9.1 - 10.7	10.0	9.3 - 10.7	
WBC (10 <sup>9</sup> /L)	2.94	2.58 - 3.29	6.78	6.17 - 7.40	16.67	15.34 - 18.01	
NEUT%	44.1	37.9 - 50.3	48.6	43.8 - 53.5	54.3	48.9 - 59.7	
LYMPH%	38.2	31.3 - 45.1	32.9	28.0 - 37.8	26.3	22.4 - 30.2	
MONO%	8.2	3.8 - 12.7	8.0	4.9 - 11.1	8.3	5.0 - 11.5	
EO%	9.4	5.9 - 13.0	10.5	6.6 - 14.4	11.1	7.1 - 15.1	
BASO%	62.5	55.7 - 69.4	69.3	64.4 - 74.1	74.7	71.0 - 78.5	
NEUT# (10 <sup>9</sup> /L)	1.29	1.04 - 1.55	3.30	2.81 - 3.80	9.05	7.88 - 10.23	
LYMPH# (10 <sup>9</sup> /L)	1.12	0.86 - 1.38	2.23	1.81 - 2.66	4.38	3.64 - 5.13	
MONO# (10 <sup>9</sup> /L)	0.24	0.11 - 0.38	0.54	0.31 - 0.77	1.38	0.83 - 1.93	
EO# (10 <sup>9</sup> /L)	0.28	0.17 - 0.39	0.71	0.43 - 0.99	1.86	1.17 - 2.54	
BASO# (10 <sup>9</sup> /L)	1.84	1.51 - 2.17	4.70	4.09 - 5.31	12.46	11.21 - 13.71	
NRBC# (10 <sup>9</sup> /L)	2.90	2.41 - 3.39	6.76	5.88 - 7.63	17.48	15.39 - 19.58	
NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A	
PLT-O (10 <sup>9</sup> /L)	60	40 - 80	229	190 - 268	526	447 - 604	
RET# (10 <sup>12</sup> /L)	0.1371	0.0946 - 0.1796	0.1117	0.0782 - 0.1453	0.0563	0.0405 - 0.0720	
RET%	5.85	4.21 - 7.49	2.55	1.86 - 3.24	1.08	0.70 - 1.46	
IRF (%)	38.9	6.6 - 71.2	36.7	2.9 - 70.5	28.8	1.4 - 56.2	
<sup>a</sup> IG (#)	0.30	0.22 - 0.37	0.77	0.61 - 0.93	2.07	1.65 - 2.48	
<sup>a</sup> IG (%)	10.12	7.99 - 12.24	11.38	9.22 - 13.54	12.41	10.05 - 14.76	
<sup>b</sup> HPC (#)	0.011	0.007 - 0.014	0.031	0.024 - 0.039	0.081	0.061 - 0.101	
<sup>c</sup> RET-He (pg)	22.8	19.6 - 26.0	23.6	20.3 - 26.9	25.3	21.3 - 29.4	
<sup>d</sup> IPF (%)	22.1	17.9 - 26.3	22.0	17.8 - 26.2	21.1	17.1 - 25.1	

<sup>a</sup>IG values are only available with the Sysmex XE-Series IG Master software.  
<sup>b</sup>HPC values are only available with the Sysmex XE-Series RET Master software.

<sup>c</sup>RET-He values are only available with the Sysmex XE-Series HPC Master  
<sup>d</sup>IPF values are only available with the Sysmex XE-Series IPF Master software.

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# e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XT-1800i™ and XT-2000i™ ANALYZERS

## OPEN MODE ASSAY

Expiration Date:		2024-07-01		Quality Control Data Due Date #1: 20-May-24		Quality Control Data Due Date #2: 01-Jul-24	
Lot Number:		41010801		41010802		41010803	
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)	2.33	2.24 - 2.42	4.39	4.21 - 4.56	5.27	5.06 - 5.49	
HGB (g/dL)	5.8	5.6 - 6.1	12.2	11.9 - 12.6	16.1	15.6 - 16.5	
HCT (%)	18.0	17.0 - 19.1	36.7	34.8 - 38.5	47.5	45.2 - 49.9	
MCV (fL)	77.4	72.8 - 82.1	83.6	79.4 - 87.8	90.1	85.6 - 94.6	
MCH (pg)	25.1	23.3 - 26.8	27.9	26.2 - 29.6	30.5	28.9 - 32.0	
MCHC (g/dL)	32.4	29.5 - 35.3	33.4	31.0 - 35.7	33.8	31.4 - 36.2	
PLT (10 <sup>9</sup> /L)	56	42 - 71	213	190 - 237	514	473 - 556	
RDW-SD (fL)	44.2	39.8 - 48.6	44.2	39.7 - 48.6	45.0	39.6 - 50.4	
RDW-CV (%)	15.9	14.3 - 17.5	15.0	13.8 - 16.2	14.5	13.3 - 15.6	
MPV (fL)	9.6	8.3 - 10.8	10.1	9.4 - 10.8	10.4	9.9 - 10.9	
WBC (10 <sup>9</sup> /L)	2.90	2.49 - 3.31	7.15	6.43 - 7.86	16.97	15.44 - 18.49	
NEUT%	44.2	38.0 - 50.4	48.1	43.3 - 53.0	53.0	48.2 - 57.8	
LYMPH%	36.0	27.7 - 44.3	31.5	26.1 - 36.8	25.6	22.3 - 28.9	
MONO%	10.2	3.7 - 16.8	10.3	5.7 - 14.8	10.2	6.2 - 14.2	
EO%	9.5	6.0 - 13.0	10.1	6.5 - 13.8	11.2	7.3 - 15.2	
BASO%	63.1	56.8 - 69.4	68.1	64.0 - 72.2	78.1	74.2 - 82.0	
NEUT# (10 <sup>9</sup> /L)	1.28	1.03 - 1.54	3.44	2.92 - 3.96	8.99	7.82 - 10.16	
LYMPH# (10 <sup>9</sup> /L)	1.05	0.76 - 1.33	2.25	1.80 - 2.70	4.34	3.65 - 5.03	
MONO# (10 <sup>9</sup> /L)	0.30	0.10 - 0.49	0.73	0.40 - 1.06	1.73	1.04 - 2.42	
EO# (10 <sup>9</sup> /L)	0.28	0.17 - 0.38	0.72	0.46 - 0.99	1.91	1.22 - 2.59	
BASO# (10 <sup>9</sup> /L)	1.83	1.50 - 2.16	4.87	4.28 - 5.45	13.26	11.93 - 14.58	
PLT-O (10 <sup>9</sup> /L)	52	34 - 71	214	173 - 255	526	442 - 610	
RET# (10 <sup>12</sup> /L)	0.1237	0.0879 - 0.1596	0.0886	0.0584 - 0.1187	0.0447	0.0268 - 0.0625	
RET%	5.31	3.93 - 6.69	2.02	1.43 - 2.60	0.85	0.50 - 1.19	
IRF (%)	48.1	12.5 - 83.7	42.8	8.1 - 77.5	31.6	3.8 - 59.4	
<sup>a</sup> IG (#)	0.34	0.26 - 0.42	0.93	0.74 - 1.11	2.42	1.41 - 3.44	
<sup>a</sup> IG (%)	11.74	9.39 - 14.09	12.95	10.62 - 15.28	14.28	8.28 - 20.28	
<sup>b</sup> RET-He (pg) <sup>b</sup>	23.1	20.8 - 25.4	23.5	21.1 - 25.8	24.3	20.9 - 27.7	

<sup>a</sup>IG values are only available with the Sysmex XT-Series IG Master software.  
<sup>b</sup>RET-He values are only available with the Sysmex XT-Series RET Master software.

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# e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XT-1800i™ and XT-2000i™ ANALYZERS

## CLOSED MODE ASSAY

Expiration Date:		2024-07-01		Quality Control Data Due Date #1: 20-May-24		Quality Control Data Due Date #2: 01-Jul-24	
Lot Number:		41010801		41010802		41010803	
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)	2.33	2.24 - 2.42	4.39	4.21 - 4.56	5.17	4.96 - 5.38	
HGB (g/dL)	5.8	5.6 - 6.1	12.4	12.0 - 12.7	15.9	15.4 - 16.4	
HCT (%)	18.0	17.0 - 19.1	36.7	34.8 - 38.5	47.5	45.2 - 49.9	
MCV (fL)	77.4	72.8 - 82.1	83.6	79.4 - 87.8	91.9	87.3 - 96.5	
MCH (pg)	25.1	23.3 - 26.8	28.2	26.5 - 29.9	30.8	29.2 - 32.3	
MCHC (g/dL)	32.4	29.5 - 35.3	33.7	31.3 - 36.1	33.5	31.1 - 35.8	
PLT (10 <sup>9</sup> /L)	57	42 - 71	207	184 - 229	473	435 - 511	
RDW-SD (fL)	44.2	39.8 - 48.6	44.2	39.7 - 48.6	45.0	39.6 - 50.4	
RDW-CV (%)	15.9	14.3 - 17.5	15.0	13.8 - 16.2	14.5	13.3 - 15.6	
MPV (fL)	9.6	8.3 - 10.8	10.1	9.4 - 10.8	10.4	9.9 - 10.9	
WBC (10 <sup>9</sup> /L)	2.90	2.49 - 3.31	6.93	6.24 - 7.62	16.46	14.98 - 17.94	
NEUT%	44.4	38.2 - 50.6	48.1	43.3 - 53.0	53.9	49.0 - 58.7	
LYMPH%	36.0	27.7 - 44.3	31.5	26.1 - 36.8	25.3	22.0 - 28.6	
MONO%	10.2	3.7 - 16.8	10.0	5.6 - 14.5	9.8	6.0 - 13.6	
EO%	9.3	5.9 - 12.8	10.3	6.6 - 14.1	11.0	7.2 - 14.9	
BASO%	62.4	56.2 - 68.7	67.4	63.4 - 71.5	77.4	73.5 - 81.2	
NEUT# (10 <sup>9</sup> /L)	1.29	1.03 - 1.55	3.34	2.84 - 3.84	8.87	7.71 - 10.02	
LYMPH# (10 <sup>9</sup> /L)	1.05	0.76 - 1.33	2.18	1.74 - 2.62	4.17	3.50 - 4.84	
MONO# (10 <sup>9</sup> /L)	0.30	0.10 - 0.49	0.70	0.38 - 1.01	1.61	0.97 - 2.25	
EO# (10 <sup>9</sup> /L)	0.27	0.16 - 0.38	0.72	0.45 - 0.98	1.81	1.16 - 2.47	
BASO# (10 <sup>9</sup> /L)	1.81	1.48 - 2.14	4.67	4.11 - 5.24	12.73	11.46 - 14.00	
PLT-O (10 <sup>9</sup> /L)	52	34 - 71	214	173 - 255	510	429 - 592	
RET# (10 <sup>12</sup> /L)	0.1114	0.0791 - 0.1437	0.0886	0.0584 - 0.1187	0.0438	0.0263 - 0.0613	
RET%	4.78	3.54 - 6.02	2.02	1.43 - 2.60	0.85	0.50 - 1.19	
IRF (%)	48.1	12.5 - 83.7	42.8	8.1 - 77.5	31.6	3.8 - 59.4	
<sup>a</sup> IG (#)	0.35	0.27 - 0.43	0.92	0.73 - 1.10	2.40	1.39 - 3.40	
<sup>a</sup> IG (%)	11.97	9.58 - 14.37	13.21	10.83 - 15.59	14.57	8.45 - 20.68	
<sup>b</sup> RET-He (pg) <sup>b</sup>	23.1	20.8 - 25.4	23.5	21.1 - 25.8	24.3	20.9 - 27.7	

<sup>a</sup>IG values are only available with the Sysmex XT-Series IG Master software.  
<sup>b</sup>RET-He values are only available with the Sysmex XT-Series RET Master software.

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