



# e-CHECK™

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

Expiration Date:		2020-05-11		Quality Control Data Due Date #1: 30-Mar-20		Quality Control Data Due Date #2: 11-May-20	
Lot Number:		00500801		00500802		00500803	
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)	2.29	2.20 - 2.38	4.33	4.20 - 4.46	5.22	5.06 - 5.38	
HGB (g/dL)	5.7	5.5 - 5.9	12.5	12.1 - 12.8	16.2	15.8 - 16.7	
HCT (%)	17.5	16.5 - 18.6	36.6	34.8 - 38.4	46.6	44.3 - 48.9	
MCV (fL)	76.4	71.8 - 81.0	84.5	79.4 - 89.6	89.3	84.8 - 93.8	
MCH (pg)	24.9	23.7 - 26.1	28.8	27.6 - 30.0	31.1	29.9 - 32.3	
MCHC (g/dL)	32.6	30.0 - 35.2	34.1	31.7 - 36.5	34.8	32.4 - 37.2	
PLT (10 <sup>9</sup> /L)	59	45 - 73	234	211 - 257	556	512 - 600	
RDW-SD (fL)	45.2	41.1 - 49.3	44.9	40.9 - 48.9	44.3	40.3 - 48.3	
RDW-CV (%)	16.4	15.1 - 17.7	14.6	13.7 - 15.5	13.8	13.0 - 14.6	
MPV (fL)	9.1	7.9 - 10.3	9.4	8.6 - 10.2	9.5	8.8 - 10.2	
WBC (10 <sup>9</sup> /L)	2.90	2.55 - 3.25	6.87	6.25 - 7.49	16.28	14.98 - 17.58	
NEUT%	42.3	36.4 - 48.2	47.0	42.3 - 51.7	51.5	46.4 - 56.7	
LYMPH%	39.3	32.2 - 46.4	34.4	29.2 - 39.6	29.8	25.3 - 34.3	
MONO%	9.1	4.2 - 14.0	8.9	5.4 - 12.4	8.2	5.0 - 11.4	
EO%	9.3	5.8 - 12.8	9.7	6.1 - 13.3	10.5	6.7 - 14.3	
BASO%	61.7	54.9 - 68.5	67.0	62.3 - 71.7	71.8	68.2 - 75.4	
NEUT# (10 <sup>9</sup> /L)	1.23	0.98 - 1.48	3.23	2.75 - 3.71	8.39	7.30 - 9.48	
LYMPH# (10 <sup>9</sup> /L)	1.14	0.88 - 1.40	2.36	1.91 - 2.81	4.85	4.03 - 5.67	
MONO# (10 <sup>9</sup> /L)	0.26	0.11 - 0.41	0.61	0.35 - 0.87	1.33	0.80 - 1.86	
EO# (10 <sup>9</sup> /L)	0.27	0.16 - 0.38	0.67	0.41 - 0.93	1.71	1.08 - 2.34	
BASO# (10 <sup>9</sup> /L)	1.79	1.47 - 2.11	4.60	4.00 - 5.20	11.69	10.52 - 12.86	
NRBC# (10 <sup>9</sup> /L)	2.85	2.37 - 3.33	6.70	5.83 - 7.57	16.92	14.89 - 18.95	
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)	63	42 - 84	235	195 - 275	548	466 - 630	
RET# (10 <sup>12</sup> /L)	0.1406	0.0970 - 0.1842	0.1074	0.0752 - 0.1396	0.0548	0.0395 - 0.0701	
RET%	6.14	4.42 - 7.86	2.48	1.81 - 3.15	1.05	0.68 - 1.42	
IRF (%)	34.8	5.9 - 63.7	29.6	2.4 - 56.8	21.9	1.1 - 42.7	
<sup>a</sup> IG (#)	0.29	0.22 - 0.36	0.76	0.60 - 0.92	1.96	1.57 - 2.35	
<sup>a</sup> IG (%)	9.89	7.81 - 11.97	11.01	8.92 - 13.10	12.07	9.78 - 14.36	
<sup>b</sup> HPC (#)	0.012	0.008 - 0.016	0.032	0.024 - 0.040	0.081	0.061 - 0.101	
<sup>c</sup> RET-He (pg)	23.6	20.3 - 26.9	24.4	21.0 - 27.8	25.9	21.8 - 30.0	
<sup>d</sup> IPF (%)	22.1	17.9 - 26.3	21.9	17.7 - 26.1	21.3	17.3 - 25.3	

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

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

**OPEN**



# e-CHECK™

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

Expiration Date:		2020-05-11		Quality Control Data Due Date #1: 30-Mar-20		Quality Control Data Due Date #2: 11-May-20	
Lot Number:		00500801		00500802		00500803	
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)	2.29	2.20 - 2.38	4.33	4.20 - 4.46	5.17	5.01 - 5.33	
HGB (g/dL)	5.7	5.5 - 6.0	12.4	12.0 - 12.8	16.1	15.6 - 16.6	
HCT (%)	17.5	16.5 - 18.6	36.6	34.8 - 38.4	46.6	44.3 - 48.9	
MCV (fL)	76.4	71.8 - 81.0	84.5	79.4 - 89.6	90.1	85.6 - 94.6	
MCH (pg)	25.0	23.8 - 26.3	28.7	27.6 - 29.8	31.1	29.9 - 32.3	
MCHC (g/dL)	32.7	30.1 - 35.3	33.9	31.5 - 36.3	34.5	32.1 - 36.9	
PLT (10 <sup>9</sup> /L)	59	45 - 73	229	206 - 252	523	481 - 565	
RDW-SD (fL)	44.7	40.7 - 48.7	44.5	40.5 - 48.5	44.3	40.3 - 48.3	
RDW-CV (%)	16.2	14.9 - 17.5	14.5	13.6 - 15.4	13.8	13.0 - 14.6	
MPV (fL)	9.1	7.9 - 10.3	9.4	8.6 - 10.2	9.5	8.8 - 10.2	
WBC (10 <sup>9</sup> /L)	2.81	2.47 - 3.15	6.46	5.88 - 7.04	15.95	14.67 - 17.23	
NEUT%	42.9	36.9 - 48.9	47.1	42.4 - 51.8	52.0	46.8 - 57.2	
LYMPH%	38.9	31.9 - 45.9	35.1	29.8 - 40.4	29.5	25.1 - 33.9	
MONO%	9.0	4.1 - 13.9	8.2	5.0 - 11.4	8.0	4.9 - 11.1	
EO%	9.2	5.7 - 12.7	9.6	6.0 - 13.2	10.5	6.7 - 14.3	
BASO%	61.7	54.9 - 68.5	67.7	63.0 - 72.4	71.8	68.2 - 75.4	
NEUT# (10 <sup>9</sup> /L)	1.21	0.97 - 1.45	3.04	2.58 - 3.50	8.29	7.21 - 9.37	
LYMPH# (10 <sup>9</sup> /L)	1.09	0.84 - 1.34	2.27	1.84 - 2.70	4.71	3.91 - 5.51	
MONO# (10 <sup>9</sup> /L)	0.25	0.11 - 0.39	0.53	0.31 - 0.75	1.28	0.77 - 1.79	
EO# (10 <sup>9</sup> /L)	0.26	0.16 - 0.36	0.62	0.38 - 0.86	1.67	1.05 - 2.29	
BASO# (10 <sup>9</sup> /L)	1.73	1.42 - 2.04	4.37	3.80 - 4.94	11.45	10.31 - 12.60	
NRBC# (10 <sup>9</sup> /L)	2.82	2.34 - 3.30	6.43	5.59 - 7.27	16.75	14.74 - 18.76	
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)	64	42 - 86	235	195 - 275	532	452 - 612	
RET# (10 <sup>12</sup> /L)	0.1379	0.0952 - 0.1806	0.1065	0.0746 - 0.1385	0.0538	0.0387 - 0.0689	
RET%	6.02	4.33 - 7.71	2.46	1.80 - 3.12	1.04	0.68 - 1.40	
IRF (%)	33.1	5.6 - 60.6	29.6	2.4 - 56.8	22.8	1.1 - 44.5	
<sup>a</sup> IG (#)	0.28	0.21 - 0.35	0.71	0.56 - 0.86	1.93	1.54 - 2.32	
<sup>a</sup> IG (%)	9.89	7.81 - 11.97	11.01	8.92 - 13.10	12.07	9.78 - 14.36	
<sup>b</sup> HPC (#)	0.012	0.008 - 0.016	0.032	0.024 - 0.040	0.081	0.061 - 0.101	
<sup>c</sup> RET-He (pg)	23.1	19.9 - 26.3	23.9	20.6 - 27.2	25.4	21.3 - 29.5	
<sup>d</sup> IPF (%)	22.1	17.9 - 26.3	21.9	17.7 - 26.1	21.3	17.3 - 25.3	

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

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

**CLOSED**



e-CHECK™

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

OPEN MODE ASSAY

Expiration Date:		2020-05-11		Quality Control Data Due Date #1: 30-Mar-20		Quality Control Data Due Date #2: 11-May-20	
Lot Number:		00500801		00500802		00500803	
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)	2.29	2.20 - 2.38	4.36	4.19 - 4.53	5.26	5.05 - 5.47	
HGB (g/dL)	5.6	5.4 - 5.8	12.3	11.9 - 12.6	16.0	15.5 - 16.5	
HCT (%)	17.6	16.5 - 18.7	36.8	35.0 - 38.6	47.3	44.9 - 49.7	
MCV (fL)	76.9	72.3 - 81.5	84.4	80.2 - 88.6	89.9	85.4 - 94.4	
MCH (pg)	24.5	22.8 - 26.2	28.1	26.4 - 29.8	30.5	29.0 - 32.0	
MCHC (g/dL)	31.8	28.9 - 34.7	33.3	31.0 - 35.6	33.9	31.5 - 36.3	
PLT (10 <sup>9</sup> /L)	62	46 - 78	236	210 - 262	547	503 - 591	
RDW-SD (fL)	45.8	41.2 - 50.4	45.3	40.8 - 49.8	44.4	39.1 - 49.7	
RDW-CV (%)	16.8	15.1 - 18.5	15.3	14.1 - 16.5	14.5	13.3 - 15.7	
MPV (fL)	9.2	8.0 - 10.4	9.6	8.9 - 10.3	9.8	9.3 - 10.3	
WBC (10 <sup>9</sup> /L)	2.86	2.46 - 3.26	7.02	6.32 - 7.72	16.62	15.12 - 18.12	
NEUT%	42.8	36.8 - 48.8	45.8	41.2 - 50.4	50.0	45.5 - 54.5	
LYMPH%	37.6	29.0 - 46.2	33.3	27.6 - 39.0	28.7	25.0 - 32.4	
MONO%	10.5	3.8 - 17.2	11.4	6.4 - 16.4	10.2	6.2 - 14.2	
EO%	9.1	5.7 - 12.5	9.5	6.1 - 12.9	11.1	7.2 - 15.0	
BASO%	62.4	56.2 - 68.6	66.3	62.3 - 70.3	75.3	71.5 - 79.1	
NEUT# (10 <sup>9</sup> /L)	1.22	0.98 - 1.46	3.21	2.73 - 3.69	8.31	7.23 - 9.39	
LYMPH# (10 <sup>9</sup> /L)	1.08	0.79 - 1.37	2.34	1.87 - 2.81	4.77	4.01 - 5.53	
MONO# (10 <sup>9</sup> /L)	0.30	0.10 - 0.50	0.80	0.44 - 1.16	1.70	1.02 - 2.38	
EO# (10 <sup>9</sup> /L)	0.26	0.16 - 0.36	0.67	0.42 - 0.92	1.84	1.18 - 2.50	
BASO# (10 <sup>9</sup> /L)	1.78	1.46 - 2.10	4.65	4.09 - 5.21	12.51	11.26 - 13.76	
PLT-O (10 <sup>9</sup> /L)	62	40 - 84	236	191 - 281	587	493 - 681	
RET# (10 <sup>12</sup> /L)	0.1218	0.0865 - 0.1571	0.0833	0.0550 - 0.1116	0.0458	0.0275 - 0.0641	
RET%	5.32	3.94 - 6.70	1.91	1.36 - 2.46	0.87	0.51 - 1.23	
IRF (%)	47.7	12.4 - 83.0	41.9	8.0 - 75.8	27.8	3.3 - 52.3	
<sup>a</sup> IG (#)	0.33	0.25 - 0.41	0.86	0.69 - 1.03	2.26	1.31 - 3.21	
<sup>a</sup> IG (%)	11.51	9.21 - 13.81	12.29	10.08 - 14.50	13.61	7.89 - 19.33	
<sup>c</sup> RET-He (pg)	24.0	21.6 - 26.4	24.0	21.6 - 26.4	24.1	20.7 - 27.5	

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

OPEN



e-CHECK™

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

CLOSED MODE ASSAY

Expiration Date:		2020-05-11		Quality Control Data Due Date #1: 30-Mar-20		Quality Control Data Due Date #2: 11-May-20	
Lot Number:		00500801		00500802		00500803	
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)	2.29	2.20 - 2.38	4.36	4.19 - 4.53	5.15	4.94 - 5.36	
HGB (g/dL)	5.6	5.4 - 5.8	12.4	12.0 - 12.8	15.9	15.4 - 16.3	
HCT (%)	17.6	16.5 - 18.7	36.8	35.0 - 38.6	47.3	44.9 - 49.7	
MCV (fL)	76.9	72.3 - 81.5	84.4	80.2 - 88.6	91.8	87.2 - 96.4	
MCH (pg)	24.5	22.8 - 26.2	28.4	26.7 - 30.1	30.8	29.3 - 32.3	
MCHC (g/dL)	31.8	28.9 - 34.7	33.7	31.3 - 36.1	33.6	31.2 - 36.0	
PLT (10 <sup>9</sup> /L)	63	47 - 79	229	204 - 254	503	463 - 543	
RDW-SD (fL)	45.8	41.2 - 50.4	45.3	40.8 - 49.8	44.4	39.1 - 49.7	
RDW-CV (%)	16.8	15.1 - 18.5	15.3	14.1 - 16.5	14.5	13.3 - 15.7	
MPV (fL)	9.2	8.0 - 10.4	9.6	8.9 - 10.3	9.8	9.3 - 10.3	
WBC (10 <sup>9</sup> /L)	2.86	2.46 - 3.26	6.81	6.13 - 7.49	16.12	14.67 - 17.57	
NEUT%	43.0	37.0 - 49.0	45.8	41.2 - 50.4	50.9	46.3 - 55.5	
LYMPH%	37.6	29.0 - 46.2	33.3	27.6 - 39.0	28.4	24.7 - 32.1	
MONO%	10.5	3.8 - 17.2	11.2	6.3 - 16.1	9.8	6.0 - 13.6	
EO%	8.9	5.6 - 12.2	9.7	6.2 - 13.2	10.9	7.1 - 14.7	
BASO%	61.8	55.6 - 68.0	65.6	61.7 - 69.5	74.5	70.8 - 78.2	
NEUT# (10 <sup>9</sup> /L)	1.23	0.98 - 1.48	3.12	2.65 - 3.59	8.20	7.13 - 9.27	
LYMPH# (10 <sup>9</sup> /L)	1.08	0.79 - 1.37	2.27	1.82 - 2.72	4.58	3.85 - 5.31	
MONO# (10 <sup>9</sup> /L)	0.30	0.10 - 0.50	0.76	0.42 - 1.10	1.58	0.95 - 2.21	
EO# (10 <sup>9</sup> /L)	0.25	0.15 - 0.35	0.66	0.42 - 0.90	1.76	1.13 - 2.39	
BASO# (10 <sup>9</sup> /L)	1.77	1.45 - 2.09	4.47	3.93 - 5.01	12.01	10.81 - 13.21	
PLT-O (10 <sup>9</sup> /L)	62	40 - 84	236	191 - 281	569	478 - 660	
RET# (10 <sup>12</sup> /L)	0.1097	0.0779 - 0.1415	0.0833	0.0550 - 0.1116	0.0448	0.0269 - 0.0627	
RET%	4.79	3.54 - 6.04	1.91	1.36 - 2.46	0.87	0.51 - 1.23	
IRF (%)	47.7	12.4 - 83.0	41.9	8.0 - 75.8	27.8	3.3 - 52.3	
<sup>a</sup> IG (#)	0.34	0.26 - 0.42	0.85	0.68 - 1.02	2.24	1.30 - 3.18	
<sup>a</sup> IG (%)	11.74	9.39 - 14.09	12.54	10.28 - 14.80	13.88	8.05 - 19.71	
<sup>c</sup> RET-He (pg)	24.0	21.6 - 26.4	24.0	21.6 - 26.4	24.1	20.7 - 27.5	

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

CLOSED