



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS

OPEN MODE ASSAY

Expiration Date:		2020-03-16		Quality Control Data Due Date #1: 03-Feb-20		Quality Control Data Due Date #2: 16-Mar-20	
Lot Number:		93590801		93590802		93590803	
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)	2.30	2.21 - 2.39	4.37	4.24 - 4.50	5.27	5.11 - 5.43	
HGB (g/dL)	5.5	5.3 - 5.7	12.2	11.8 - 12.6	16.4	15.9 - 16.8	
HCT (%)	17.0	16.0 - 18.0	35.8	34.0 - 37.6	46.6	44.3 - 48.9	
MCV (fL)	73.9	69.5 - 78.3	81.9	77.0 - 86.8	88.4	84.0 - 92.8	
MCH (pg)	23.9	22.7 - 25.1	27.9	26.8 - 29.0	31.0	29.8 - 32.2	
MCHC (g/dL)	32.4	29.8 - 35.0	34.1	31.7 - 36.5	35.1	32.6 - 37.6	
PLT (10 <sup>9</sup> /L)	59	45 - 73	234	211 - 257	560	515 - 605	
RDW-SD (fL)	44.6	40.6 - 48.6	43.8	39.9 - 47.7	44.3	40.3 - 48.3	
RDW-CV (%)	16.6	15.3 - 17.9	14.8	13.9 - 15.7	13.9	13.1 - 14.7	
MPV (fL)	9.3	8.1 - 10.5	9.6	8.8 - 10.4	9.8	9.1 - 10.5	
WBC (10 <sup>9</sup> /L)	2.84	2.50 - 3.18	6.79	6.18 - 7.40	16.27	14.97 - 17.57	
NEUT%	42.7	36.7 - 48.7	47.2	42.5 - 51.9	51.6	46.4 - 56.8	
LYMPH%	39.2	32.1 - 46.3	33.7	28.6 - 38.8	28.9	24.6 - 33.2	
MONO%	9.0	4.1 - 13.9	8.8	5.4 - 12.2	8.8	5.4 - 12.2	
EO%	9.1	5.6 - 12.6	10.3	6.5 - 14.1	10.7	6.8 - 14.6	
BASO%	61.8	55.0 - 68.6	67.2	62.5 - 71.9	72.2	68.6 - 75.8	
NEUT# (10 <sup>9</sup> /L)	1.21	0.97 - 1.45	3.20	2.72 - 3.68	8.40	7.31 - 9.49	
LYMPH# (10 <sup>9</sup> /L)	1.11	0.85 - 1.37	2.29	1.85 - 2.73	4.70	3.90 - 5.50	
MONO# (10 <sup>9</sup> /L)	0.26	0.11 - 0.41	0.60	0.35 - 0.85	1.43	0.86 - 2.00	
EO# (10 <sup>9</sup> /L)	0.26	0.16 - 0.36	0.70	0.43 - 0.97	1.74	1.10 - 2.38	
BASO# (10 <sup>9</sup> /L)	1.76	1.44 - 2.08	4.56	3.97 - 5.15	11.75	10.58 - 12.93	
NRBC# (10 <sup>9</sup> /L)	2.80	2.32 - 3.28	6.63	5.77 - 7.49	16.94	14.91 - 18.97	
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	231	192 - 270	550	468 - 633	
RET# (10 <sup>12</sup> /L)	0.1359	0.0938 - 0.1780	0.1097	0.0768 - 0.1426	0.0569	0.0410 - 0.0728	
RET%	5.91	4.26 - 7.56	2.51	1.83 - 3.19	1.08	0.70 - 1.46	
IRF (%)	32.0	5.4 - 58.6	29.1	2.3 - 55.9	20.2	1.0 - 39.4	
<sup>a</sup> IG (#)	0.28	0.21 - 0.35	0.75	0.59 - 0.91	1.98	1.58 - 2.38	
<sup>a</sup> IG (%)	10.00	7.90 - 12.10	10.98	8.89 - 13.07	12.14	9.83 - 14.45	
<sup>b</sup> HPC (#)	0.011	0.008 - 0.014	0.031	0.023 - 0.039	0.079	0.059 - 0.099	
<sup>c</sup> RET-He (pg)	23.9	20.6 - 27.2	24.6	21.2 - 28.0	26.2	22.0 - 30.4	
<sup>d</sup> IPF (%)	21.8	17.7 - 25.9	22.0	17.8 - 26.2	22.1	17.9 - 26.3	

<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.



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS

CLOSED MODE ASSAY

Expiration Date:		2020-03-16		Quality Control Data Due Date #1: 03-Feb-20		Quality Control Data Due Date #2: 16-Mar-20	
Lot Number:		93590801		93590802		93590803	
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)	2.30	2.21 - 2.39	4.37	4.24 - 4.50	5.22	5.06 - 5.38	
HGB (g/dL)	5.5	5.3 - 5.8	12.1	11.8 - 12.5	16.2	15.7 - 16.7	
HCT (%)	17.0	16.0 - 18.0	35.8	34.0 - 37.6	46.6	44.3 - 48.9	
MCV (fL)	73.9	69.5 - 78.3	81.9	77.0 - 86.8	89.3	84.8 - 93.8	
MCH (pg)	24.0	22.8 - 25.2	27.8	26.7 - 28.9	31.0	29.8 - 32.2	
MCHC (g/dL)	32.5	29.9 - 35.1	33.9	31.5 - 36.3	34.7	32.3 - 37.1	
PLT (10 <sup>9</sup> /L)	59	45 - 73	229	206 - 252	526	484 - 568	
RDW-SD (fL)	44.2	40.2 - 48.2	43.4	39.5 - 47.3	44.3	40.3 - 48.3	
RDW-CV (%)	16.4	15.1 - 17.7	14.7	13.8 - 15.6	13.9	13.1 - 14.7	
MPV (fL)	9.3	8.1 - 10.5	9.6	8.8 - 10.4	9.8	9.1 - 10.5	
WBC (10 <sup>9</sup> /L)	2.75	2.42 - 3.08	6.38	5.81 - 6.95	15.94	14.66 - 17.22	
NEUT%	43.3	37.2 - 49.4	47.3	42.6 - 52.0	52.2	47.0 - 57.4	
LYMPH%	38.8	31.8 - 45.8	34.4	29.2 - 39.6	28.6	24.3 - 32.9	
MONO%	8.9	4.1 - 13.7	8.1	4.9 - 11.3	8.5	5.2 - 11.8	
EO%	9.0	5.6 - 12.4	10.2	6.4 - 14.0	10.7	6.8 - 14.6	
BASO%	61.8	55.0 - 68.6	67.9	63.1 - 72.7	72.2	68.6 - 75.8	
NEUT# (10 <sup>9</sup> /L)	1.19	0.95 - 1.43	3.02	2.57 - 3.47	8.32	7.24 - 9.40	
LYMPH# (10 <sup>9</sup> /L)	1.07	0.82 - 1.32	2.19	1.77 - 2.61	4.56	3.78 - 5.34	
MONO# (10 <sup>9</sup> /L)	0.24	0.11 - 0.37	0.52	0.30 - 0.74	1.35	0.81 - 1.89	
EO# (10 <sup>9</sup> /L)	0.25	0.15 - 0.35	0.65	0.40 - 0.90	1.71	1.08 - 2.34	
BASO# (10 <sup>9</sup> /L)	1.70	1.39 - 2.01	4.33	3.77 - 4.89	11.51	10.36 - 12.66	
NRBC# (10 <sup>9</sup> /L)	2.77	2.30 - 3.24	6.36	5.53 - 7.19	16.77	14.76 - 18.78	
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)	61	40 - 82	231	192 - 270	534	454 - 614	
RET# (10 <sup>12</sup> /L)	0.1332	0.0919 - 0.1745	0.1084	0.0759 - 0.1409	0.0559	0.0402 - 0.0716	
RET%	5.79	4.17 - 7.41	2.48	1.81 - 3.15	1.07	0.70 - 1.44	
IRF (%)	30.4	5.2 - 55.6	29.1	2.3 - 55.9	21.0	1.1 - 41.0	
<sup>a</sup> IG (#)	0.28	0.21 - 0.35	0.70	0.55 - 0.85	1.94	1.55 - 2.33	
<sup>a</sup> IG (%)	10.00	7.90 - 12.10	10.98	8.89 - 13.07	12.14	9.83 - 14.45	
<sup>b</sup> HPC (#)	0.011	0.008 - 0.014	0.031	0.023 - 0.039	0.079	0.059 - 0.099	
<sup>c</sup> RET-He (pg)	23.4	20.1 - 26.7	24.1	20.7 - 27.5	25.7	21.6 - 29.8	
<sup>d</sup> IPF (%)	21.8	17.7 - 25.9	22.0	17.8 - 26.2	22.1	17.9 - 26.3	

<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

CLOSED



e-CHECK™

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

OPEN MODE ASSAY

Expiration Date:		2020-03-16		Quality Control Data Due Date #1: 03-Feb-20		Quality Control Data Due Date #2: 16-Mar-20	
Lot Number:		93590801		93590802		93590803	
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)	2.30	2.21 - 2.39	4.37	4.20 - 4.54	5.31	5.10 - 5.52	
HGB (g/dL)	5.4	5.2 - 5.6	12.0	11.6 - 12.3	16.2	15.7 - 16.7	
HCT (%)	17.0	16.0 - 18.0	35.6	33.8 - 37.4	47.0	44.7 - 49.4	
MCV (fL)	73.9	69.5 - 78.3	81.5	77.4 - 85.6	88.5	84.1 - 92.9	
MCH (pg)	23.6	21.9 - 25.3	27.4	25.8 - 29.0	30.5	29.0 - 32.0	
MCHC (g/dL)	31.9	29.0 - 34.8	33.7	31.3 - 36.1	34.4	32.0 - 36.8	
PLT (10 <sup>9</sup> /L)	61	45 - 77	233	207 - 259	552	508 - 596	
RDW-SD (fL)	44.8	40.3 - 49.3	44.6	40.1 - 49.1	44.5	39.2 - 49.8	
RDW-CV (%)	17.1	15.4 - 18.8	15.5	14.3 - 16.7	14.6	13.4 - 15.8	
MPV (fL)	9.4	8.2 - 10.6	9.8	9.1 - 10.5	10.0	9.5 - 10.5	
WBC (10 <sup>9</sup> /L)	2.77	2.38 - 3.16	6.92	6.23 - 7.61	16.55	15.06 - 18.04	
NEUT%	42.8	36.8 - 48.8	46.3	41.7 - 50.9	50.5	46.0 - 55.0	
LYMPH%	36.4	28.0 - 44.8	32.9	27.3 - 38.5	27.9	24.3 - 31.5	
MONO%	11.9	4.3 - 19.5	10.8	6.0 - 15.6	10.6	6.5 - 14.7	
EO%	8.9	5.6 - 12.2	10.0	6.4 - 13.6	11.0	7.2 - 14.9	
BASO%	62.9	56.6 - 69.2	66.4	62.4 - 70.4	75.6	71.8 - 79.4	
NEUT# (10 <sup>9</sup> /L)	1.18	0.94 - 1.42	3.20	2.72 - 3.68	8.36	7.27 - 9.45	
LYMPH# (10 <sup>9</sup> /L)	1.01	0.74 - 1.28	2.28	1.82 - 2.74	4.62	3.88 - 5.36	
MONO# (10 <sup>9</sup> /L)	0.33	0.11 - 0.55	0.75	0.41 - 1.09	1.75	1.05 - 2.45	
EO# (10 <sup>9</sup> /L)	0.25	0.15 - 0.35	0.69	0.43 - 0.95	1.82	1.16 - 2.48	
BASO# (10 <sup>9</sup> /L)	1.74	1.43 - 2.05	4.59	4.04 - 5.14	12.51	11.26 - 13.76	
PLT-O (10 <sup>9</sup> /L)	58	38 - 78	234	190 - 278	588	494 - 682	
RET# (10 <sup>12</sup> /L)	0.1155	0.0820 - 0.1490	0.0826	0.0545 - 0.1107	0.0457	0.0274 - 0.0640	
RET%	5.02	3.71 - 6.33	1.89	1.34 - 2.44	0.86	0.51 - 1.21	
IRF (%)	47.9	12.5 - 83.3	43.4	8.2 - 78.6	29.0	3.5 - 54.5	
<sup>a</sup> IG (#)	0.31	0.24 - 0.38	0.86	0.69 - 1.03	2.24	1.30 - 3.18	
<sup>a</sup> IG (%)	11.31	9.05 - 13.57	12.44	10.20 - 14.68	13.52	7.84 - 19.20	
<sup>c</sup> RET-He (pg)	24.2	21.8 - 26.6	24.1	21.7 - 26.5	24.3	20.9 - 27.7	

<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:		2020-03-16		Quality Control Data Due Date #1: 03-Feb-20		Quality Control Data Due Date #2: 16-Mar-20	
Lot Number:		93590801		93590802		93590803	
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)	2.30	2.21 - 2.39	4.37	4.20 - 4.54	5.20	4.99 - 5.41	
HGB (g/dL)	5.4	5.2 - 5.6	12.1	11.7 - 12.5	16.0	15.5 - 16.5	
HCT (%)	17.0	16.0 - 18.0	35.6	33.8 - 37.4	47.0	44.7 - 49.4	
MCV (fL)	73.9	69.5 - 78.3	81.5	77.4 - 85.6	90.4	85.9 - 94.9	
MCH (pg)	23.5	21.9 - 25.1	27.7	26.0 - 29.4	30.8	29.3 - 32.3	
MCHC (g/dL)	31.8	28.9 - 34.7	34.0	31.6 - 36.4	34.1	31.7 - 36.5	
PLT (10 <sup>9</sup> /L)	62	46 - 78	226	201 - 251	508	467 - 549	
RDW-SD (fL)	44.8	40.3 - 49.3	44.6	40.1 - 49.1	44.5	39.2 - 49.8	
RDW-CV (%)	17.1	15.4 - 18.8	15.5	14.3 - 16.7	14.6	13.4 - 15.8	
MPV (fL)	9.4	8.2 - 10.6	9.8	9.1 - 10.5	10.0	9.5 - 10.5	
WBC (10 <sup>9</sup> /L)	2.77	2.38 - 3.16	6.71	6.04 - 7.38	16.05	14.61 - 17.49	
NEUT%	43.0	37.0 - 49.0	46.3	41.7 - 50.9	51.4	46.8 - 56.0	
LYMPH%	36.4	28.0 - 44.8	32.9	27.3 - 38.5	27.6	24.0 - 31.2	
MONO%	11.9	4.3 - 19.5	10.6	5.9 - 15.3	10.2	6.2 - 14.2	
EO%	8.7	5.5 - 11.9	10.2	6.5 - 13.9	10.8	7.0 - 14.6	
BASO%	62.3	56.1 - 68.5	65.7	61.8 - 69.6	74.8	71.1 - 78.5	
NEUT# (10 <sup>9</sup> /L)	1.19	0.95 - 1.43	3.11	2.64 - 3.58	8.25	7.18 - 9.32	
LYMPH# (10 <sup>9</sup> /L)	1.01	0.74 - 1.28	2.21	1.77 - 2.65	4.43	3.72 - 5.14	
MONO# (10 <sup>9</sup> /L)	0.33	0.11 - 0.55	0.71	0.39 - 1.03	1.64	0.98 - 2.30	
EO# (10 <sup>9</sup> /L)	0.24	0.15 - 0.33	0.68	0.43 - 0.93	1.73	1.11 - 2.35	
BASO# (10 <sup>9</sup> /L)	1.73	1.42 - 2.04	4.41	3.88 - 4.94	12.01	10.81 - 13.21	
PLT-O (10 <sup>9</sup> /L)	58	38 - 78	234	190 - 278	570	479 - 661	
RET# (10 <sup>12</sup> /L)	0.1040	0.0738 - 0.1342	0.0826	0.0545 - 0.1107	0.0447	0.0268 - 0.0626	
RET%	4.52	3.34 - 5.70	1.89	1.34 - 2.44	0.86	0.51 - 1.21	
IRF (%)	47.9	12.5 - 83.3	43.4	8.2 - 78.6	29.0	3.5 - 54.5	
<sup>a</sup> IG (#)	0.32	0.25 - 0.39	0.85	0.68 - 1.02	2.21	1.28 - 3.14	
<sup>a</sup> IG (%)	11.54	9.23 - 13.85	12.69	10.41 - 14.97	13.79	8.00 - 19.58	
<sup>c</sup> RET-He (pg)	24.2	21.8 - 26.6	24.1	21.7 - 26.5	24.3	20.9 - 27.7	

<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