



**e-CHECK™**

**HEMATOLOGY CONTROL FOR SYSMEX XE-2100D™ ANALYZERS IN BLOOD CENTERS  
OPEN MODE ASSAY**

Expiration Date:		2020-08-31		Quality Control Data Due Date #1: 20-Jul-20		Quality Control Data Due Date #2: 31-Aug-20	
Lot Number:		01620801		01620802		01620803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
<b>O P E N</b>	RBC (10 <sup>12</sup> /L)	2.30	2.20 - 2.39	4.36	4.23 - 4.49	5.25	5.09 - 5.40
	HGB (g/dL)	5.6	5.4 - 5.8	12.2	11.8 - 12.5	16.4	15.9 - 16.9
	HCT (%)	17.1	16.1 - 18.1	35.7	33.9 - 37.5	46.8	44.4 - 49.1
	MCV (fL)	74.4	69.9 - 78.8	81.9	77.0 - 86.8	89.2	84.7 - 93.7
	MCH (pg)	24.4	23.2 - 25.6	27.9	26.8 - 29.0	31.3	30.1 - 32.6
	MCHC (g/dL)	32.8	30.2 - 35.4	34.1	31.7 - 36.5	35.1	32.7 - 37.6
	PLT (10 <sup>9</sup> /L)	61	47 - 75	242	218 - 267	576	530 - 622
	RDW-SD (fL)	46.2	42.0 - 50.4	45.6	41.5 - 49.7	44.2	40.3 - 48.2
	RDW-CV (%)	17.1	15.7 - 18.4	15.5	14.5 - 16.4	13.8	13.0 - 14.7
	MPV (fL)	9.6	8.4 - 10.9	9.9	9.2 - 10.7	10.1	9.4 - 10.8
	WBC (10 <sup>9</sup> /L)	2.92	2.57 - 3.27	6.26	5.69 - 6.82	15.60	14.35 - 16.85
	NEUT%	42.3	36.4 - 48.2	48.2	43.3 - 53.0	50.8	45.7 - 55.9
	LYMPH%	41.3	33.9 - 48.8	33.2	28.2 - 38.2	30.0	25.5 - 34.5
	MONO%	8.1	3.7 - 12.4	8.3	5.1 - 11.6	8.6	5.2 - 11.9
	EO%	8.3	5.1 - 11.5	10.3	6.5 - 14.1	10.6	6.8 - 14.4
	BASO%	59.2	52.6 - 65.7	68.0	63.3 - 72.8	72.4	68.8 - 76.0
NEUT# (10 <sup>9</sup> /L)	1.23	0.99 - 1.48	3.01	2.56 - 3.47	7.93	6.90 - 8.96	
LYMPH# (10 <sup>9</sup> /L)	1.21	0.93 - 1.48	2.08	1.68 - 2.47	4.68	3.89 - 5.48	
MONO# (10 <sup>9</sup> /L)	0.24	0.10 - 0.37	0.52	0.30 - 0.74	1.34	0.80 - 1.88	
EO# (10 <sup>9</sup> /L)	0.24	0.15 - 0.34	0.64	0.39 - 0.89	1.65	1.04 - 2.26	
BASO# (10 <sup>9</sup> /L)	1.73	1.41 - 2.04	4.26	3.70 - 4.81	11.30	10.17 - 12.43	



**e-CHECK™**

**HEMATOLOGY CONTROL FOR SYSMEX XE-2100D™ ANALYZERS IN BLOOD CENTERS  
CLOSED MODE ASSAY**

Expiration Date:		2020-08-31		Quality Control Data Due Date #1: 20-Jul-20		Quality Control Data Due Date #2: 31-Aug-20	
Lot Number:		01620801		01620802		01620803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
<b>C L O S E D</b>	RBC (10 <sup>12</sup> /L)	2.30	2.20 - 2.39	4.36	4.23 - 4.49	5.19	5.04 - 5.35
	HGB (g/dL)	5.6	5.4 - 5.9	12.1	11.7 - 12.5	16.3	15.8 - 16.8
	HCT (%)	17.1	16.1 - 18.1	35.7	33.9 - 37.5	46.8	44.4 - 49.1
	MCV (fL)	74.4	69.9 - 78.8	81.9	77.0 - 86.8	90.1	85.6 - 94.6
	MCH (pg)	24.5	23.3 - 25.7	27.8	26.6 - 28.9	31.3	30.1 - 32.6
	MCHC (g/dL)	33.0	30.3 - 35.6	33.9	31.5 - 36.3	34.8	32.3 - 37.2
	PLT (10 <sup>9</sup> /L)	61	47 - 75	238	214 - 261	541	498 - 585
	RDW-SD (fL)	45.7	41.6 - 49.8	45.2	41.1 - 49.2	44.2	40.3 - 48.2
	RDW-CV (%)	16.9	15.5 - 18.2	15.3	14.4 - 16.2	13.8	13.0 - 14.7
	MPV (fL)	9.6	8.4 - 10.9	9.9	9.2 - 10.7	10.1	9.4 - 10.8
	WBC (10 <sup>9</sup> /L)	2.83	2.49 - 3.17	5.88	5.35 - 6.41	15.29	14.07 - 16.51
	NEUT%	42.9	36.9 - 48.9	48.3	43.4 - 53.1	51.4	46.3 - 56.5
	LYMPH%	40.9	33.6 - 48.3	33.9	28.8 - 39.0	29.7	25.3 - 34.2
	MONO%	8.0	3.7 - 12.3	7.7	4.7 - 10.7	8.3	5.1 - 11.6
	EO%	8.2	5.1 - 11.3	10.2	6.4 - 13.9	10.6	6.8 - 14.4
	BASO%	59.2	52.6 - 65.7	68.7	63.9 - 73.5	72.4	68.8 - 76.0
NEUT# (10 <sup>9</sup> /L)	1.21	0.97 - 1.46	2.84	2.41 - 3.26	7.86	6.84 - 8.88	
LYMPH# (10 <sup>9</sup> /L)	1.16	0.89 - 1.42	1.99	1.61 - 2.37	4.54	3.77 - 5.32	
MONO# (10 <sup>9</sup> /L)	0.23	0.10 - 0.35	0.45	0.26 - 0.64	1.27	0.76 - 1.78	
EO# (10 <sup>9</sup> /L)	0.23	0.14 - 0.33	0.60	0.36 - 0.83	1.62	1.02 - 2.21	
BASO# (10 <sup>9</sup> /L)	1.67	1.37 - 1.97	4.04	3.52 - 4.57	11.07	9.97 - 12.18	



# e-CHECK™

## HEMATOLOGY CONTROL FOR SYSMEX XE-2100C™ and XE-2100DC™ ANALYZERS

For analyzers utilizing the Cell Sheath C, CSC-300A reagent

### OPEN MODE ASSAY

Expiration Date:		2020-08-31			Quality Control Data Due Date #1: 20-Jul-20			Quality Control Data Due Date #2: 31-Aug-20		
Lot Number:		01620801			01620802			01620803		
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)	2.27	2.18	2.36	4.31	4.18	4.44	5.18	5.02	5.34	
HGB (g/dL)	5.6	5.4	5.8	12.1	11.7	12.4	16.3	15.8	16.8	
HCT (%)	16.3	15.3	17.3	34.2	32.5	35.9	45.2	42.9	47.4	
MCV (fL)	71.7	67.4	76.0	79.4	74.6	84.1	87.2	82.8	91.5	
MCH (pg)	24.6	23.3	25.8	28.0	26.9	29.1	31.5	30.3	32.8	
MCHC (g/dL)	34.3	31.5	37.0	35.2	32.8	37.7	36.2	33.6	38.7	
PLT (10 <sup>9</sup> /L)	59	45	73	237	214	261	568	523	614	
RDW-SD (fL)	45.2	41.1	49.3	46.0	41.9	50.2	44.1	40.1	48.0	
RDW-CV (%)	17.5	16.1	18.9	16.0	15.1	17.0	14.3	13.4	15.2	
MPV (fL)	9.9	8.6	11.2	10.2	9.4	11.0	10.4	9.7	11.1	
WBC (10 <sup>9</sup> /L)	2.85	2.51	3.19	6.41	5.84	6.99	15.95	14.68	17.23	
NEUT%	41.9	36.0	47.7	47.8	43.0	52.5	50.2	45.2	55.2	
LYMPH%	41.3	33.9	48.7	33.5	28.5	38.5	30.2	25.7	34.7	
MONO%	8.0	3.7	12.4	8.4	5.1	11.7	8.7	5.3	12.0	
EO%	8.8	5.4	12.1	10.3	6.5	14.2	11.0	7.0	14.9	
BASO%	59.0	52.5	65.5	68.0	63.3	72.8	72.7	69.0	76.3	
NEUT# (10 <sup>9</sup> /L)	1.19	0.96	1.43	3.06	2.60	3.52	8.00	6.96	9.05	
LYMPH# (10 <sup>9</sup> /L)	1.18	0.91	1.45	2.15	1.74	2.56	4.82	4.00	5.63	
MONO# (10 <sup>9</sup> /L)	0.23	0.10	0.36	0.54	0.31	0.77	1.38	0.83	1.94	
EO# (10 <sup>9</sup> /L)	0.25	0.15	0.35	0.66	0.40	0.92	1.75	1.10	2.40	
BASO# (10 <sup>9</sup> /L)	1.68	1.38	1.99	4.36	3.80	4.93	11.59	10.43	12.75	
NRBC# (10 <sup>9</sup> /L)	2.89	2.39	3.38	6.30	5.48	7.12	16.89	14.86	18.92	
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	39	80	224	186	262	545	463	627	
RET# (10 <sup>12</sup> /L)	0.1244	0.0859	0.1630	0.0961	0.0673	0.1249	0.0546	0.0393	0.0699	
RET%	5.48	3.94	7.01	2.23	1.63	2.83	1.05	0.69	1.42	
IRF (%)	27.0	4.6	49.4	25.0	2.0	48.1	17.7	0.9	34.5	
<sup>a</sup> IG (#)	0.28	0.21	0.35	0.71	0.56	0.86	1.86	1.48	2.23	
<sup>a</sup> IG (%)	9.75	7.70	11.80	11.07	8.97	13.17	11.63	9.42	13.84	
<sup>c</sup> RET-He (pg)	23.9	20.6	27.3	24.3	20.9	27.7	25.5	21.4	29.6	
<sup>d</sup> IPF (%)	21.9	17.7	26.0	21.5	17.4	25.6	21.8	17.7	25.9	

<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-2100C™ and XE-2100DC™ ANALYZERS

For analyzers utilizing the Cell Sheath C, CSC-300A reagent

### CLOSED MODE ASSAY

Expiration Date:		2020-08-31			Quality Control Data Due Date #1: 20-Jul-20			Quality Control Data Due Date #2: 31-Aug-20		
Lot Number:		01620801			01620802			01620803		
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)	2.27	2.18	2.36	4.31	4.18	4.44	5.13	4.97	5.28	
HGB (g/dL)	5.6	5.4	5.8	12.0	11.6	12.4	16.2	15.7	16.6	
HCT (%)	16.3	15.3	17.3	34.2	32.5	35.9	45.2	42.9	47.4	
MCV (fL)	71.7	67.4	76.0	79.4	74.6	84.1	88.0	83.6	92.4	
MCH (pg)	24.7	23.5	25.9	27.8	26.7	29.0	31.5	30.3	32.8	
MCHC (g/dL)	34.4	31.7	37.2	35.1	32.6	37.5	35.8	33.3	38.3	
PLT (10 <sup>9</sup> /L)	59	45	73	233	209	256	534	491	577	
RDW-SD (fL)	44.8	40.7	48.8	45.6	41.5	49.7	44.1	40.1	48.0	
RDW-CV (%)	17.3	15.9	18.7	15.9	14.9	16.8	14.3	13.4	15.2	
MPV (fL)	9.9	8.6	11.2	10.2	9.4	11.0	10.4	9.7	11.1	
WBC (10 <sup>9</sup> /L)	2.77	2.43	3.10	6.03	5.49	6.57	15.64	14.38	16.89	
NEUT%	42.5	36.5	48.4	47.5	42.8	52.3	50.7	45.7	55.8	
LYMPH%	40.9	33.5	48.2	33.8	28.7	38.9	29.9	25.4	34.4	
MONO%	8.0	3.7	12.3	8.4	5.1	11.7	8.4	5.1	11.7	
EO%	8.7	5.4	12.0	10.2	6.4	14.0	11.0	7.0	14.9	
BASO%	59.0	52.5	65.5	68.7	63.9	73.5	72.7	69.0	76.3	
NEUT# (10 <sup>9</sup> /L)	1.17	0.94	1.41	2.87	2.44	3.30	7.93	6.90	8.96	
LYMPH# (10 <sup>9</sup> /L)	1.13	0.87	1.39	2.04	1.65	2.43	4.67	3.88	5.47	
MONO# (10 <sup>9</sup> /L)	0.22	0.10	0.34	0.51	0.30	0.72	1.31	0.79	1.84	
EO# (10 <sup>9</sup> /L)	0.24	0.14	0.34	0.62	0.38	0.86	1.72	1.08	2.35	
BASO# (10 <sup>9</sup> /L)	1.63	1.34	1.93	4.14	3.60	4.68	11.36	10.22	12.50	
NRBC# (10 <sup>9</sup> /L)	2.86	2.37	3.34	6.05	5.26	6.83	16.72	14.72	18.73	
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	81	224	186	262	529	449	608	
RET# (10 <sup>12</sup> /L)	0.1219	0.0841	0.1597	0.0951	0.0666	0.1237	0.0538	0.0387	0.0688	
RET%	5.37	3.86	6.87	2.21	1.61	2.80	1.05	0.68	1.42	
IRF (%)	25.6	4.4	46.9	25.0	2.0	48.1	18.4	0.9	35.9	
<sup>a</sup> IG (#)	0.27	0.20	0.34	0.67	0.53	0.81	1.82	1.45	2.18	
<sup>a</sup> IG (%)	9.75	7.70	11.80	11.07	8.97	13.17	11.63	9.42	13.84	
<sup>c</sup> RET-He (pg)	23.5	20.2	26.7	23.8	20.5	27.1	25.0	21.0	29.0	
<sup>d</sup> IPF (%)	21.9	17.7	26.0	21.5	17.4	25.6	21.8	17.7	25.9	

<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.