



e-CHECK™

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

Expiration Date:		2020-07-06		Quality Control Data Due Date #1: 26-May-20		Quality Control Data Due Date #2: 06-Jul-20	
Lot Number:		01060801		01060802		01060803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
O P E N	RBC (10 ¹² /L)	2.28	2.19 - 2.37	4.41	4.28 - 4.54	5.22	5.07 - 5.38
	HGB (g/dL)	5.6	5.4 - 5.8	12.3	11.9 - 12.7	15.7	15.2 - 16.2
	HCT (%)	17.3	16.3 - 18.3	36.4	34.6 - 38.2	45.4	43.2 - 47.7
	MCV (fL)	75.8	71.2 - 80.3	82.6	77.6 - 87.5	87.0	82.6 - 91.3
	MCH (pg)	24.6	23.3 - 25.8	27.9	26.8 - 29.0	30.1	28.9 - 31.3
	MCHC (g/dL)	32.4	29.8 - 35.0	33.8	31.4 - 36.1	34.6	32.2 - 37.0
	PLT (10 ⁹ /L)	61	47 - 75	243	219 - 267	577	531 - 623
	RDW-SD (fL)	44.9	40.9 - 49.0	45.1	41.0 - 49.1	44.8	40.8 - 48.9
	RDW-CV (%)	16.4	15.1 - 17.7	15.3	14.3 - 16.2	14.6	13.8 - 15.5
	MPV (fL)	8.8	7.7 - 10.0	9.1	8.4 - 9.9	9.3	8.7 - 10.0
	WBC (10 ⁹ /L)	2.94	2.59 - 3.29	6.92	6.30 - 7.55	16.20	14.90 - 17.50
	NEUT%	42.8	36.8 - 48.8	48.9	44.0 - 53.8	52.0	46.8 - 57.2
	LYMPH%	38.7	31.8 - 45.7	32.3	27.5 - 37.2	29.2	24.8 - 33.5
	MONO%	9.2	4.2 - 14.2	8.5	5.2 - 11.8	7.9	4.8 - 11.0
	EO%	9.2	5.7 - 12.7	10.2	6.4 - 14.0	11.0	7.0 - 14.9
	BASO%	62.1	55.2 - 68.9	68.3	63.6 - 73.1	72.3	68.7 - 75.9
NEUT# (10 ⁹ /L)	1.26	1.01 - 1.51	3.39	2.88 - 3.90	8.42	7.32 - 9.51	
LYMPH# (10 ⁹ /L)	1.14	0.88 - 1.40	2.24	1.81 - 2.66	4.73	3.92 - 5.53	
MONO# (10 ⁹ /L)	0.27	0.12 - 0.42	0.59	0.34 - 0.84	1.28	0.77 - 1.79	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.71	0.43 - 0.98	1.78	1.12 - 2.44	
BASO# (10 ⁹ /L)	1.83	1.50 - 2.15	4.73	4.12 - 5.35	11.71	10.54 - 12.88	



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Lot Number:		01060801		01060802		01060803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
C L O S E D	RBC (10 ¹² /L)	2.28	2.19 - 2.37	4.41	4.28 - 4.54	5.17	5.02 - 5.33
	HGB (g/dL)	5.6	5.4 - 5.9	12.2	11.9 - 12.6	15.6	15.1 - 16.0
	HCT (%)	17.3	16.3 - 18.3	36.4	34.6 - 38.2	45.4	43.2 - 47.7
	MCV (fL)	75.8	71.2 - 80.3	82.6	77.6 - 87.5	87.9	83.5 - 92.2
	MCH (pg)	24.7	23.5 - 25.9	27.7	26.6 - 28.8	30.1	28.9 - 31.3
	MCHC (g/dL)	32.6	30.0 - 35.2	33.6	31.2 - 35.9	34.2	31.8 - 36.6
	PLT (10 ⁹ /L)	61	47 - 75	238	214 - 262	542	499 - 586
	RDW-SD (fL)	44.5	40.5 - 48.5	44.6	40.6 - 48.6	44.8	40.8 - 48.9
	RDW-CV (%)	16.2	14.9 - 17.5	15.1	14.2 - 16.0	14.6	13.8 - 15.5
	MPV (fL)	8.8	7.7 - 10.0	9.1	8.4 - 9.9	9.3	8.7 - 10.0
	WBC (10 ⁹ /L)	2.85	2.51 - 3.20	6.51	5.92 - 7.09	15.88	14.61 - 17.15
	NEUT%	43.4	37.3 - 49.5	49.1	44.2 - 54.0	52.5	47.2 - 57.7
	LYMPH%	38.3	31.4 - 45.2	33.0	28.0 - 37.9	28.9	24.5 - 33.2
	MONO%	9.1	4.2 - 14.1	7.8	4.8 - 10.9	7.7	4.7 - 10.6
	EO%	9.1	5.6 - 12.6	10.1	6.4 - 13.8	11.0	7.0 - 14.9
	BASO%	62.1	55.2 - 68.9	69.0	64.2 - 73.8	72.3	68.7 - 75.9
NEUT# (10 ⁹ /L)	1.24	0.99 - 1.49	3.19	2.71 - 3.67	8.33	7.25 - 9.42	
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.35	2.15	1.74 - 2.55	4.58	3.80 - 5.36	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.51	0.30 - 0.72	1.22	0.73 - 1.70	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.66	0.40 - 0.91	1.74	1.10 - 2.39	
BASO# (10 ⁹ /L)	1.77	1.45 - 2.09	4.49	3.91 - 5.08	11.48	10.33 - 12.62	



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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:		2020-07-06		Quality Control Data Due Date #1: 26-May-20		Quality Control Data Due Date #2: 06-Jul-20	
Lot Number:		01060801		01060802		01060803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.28	2.18 - 2.37	4.37	4.24 - 4.50	5.17	5.01 - 5.33	
HGB (g/dL)	5.6	5.4 - 5.8	12.3	11.9 - 12.7	15.6	15.1 - 16.1	
HCT (%)	16.6	15.6 - 17.6	34.9	33.1 - 36.6	43.4	41.2 - 45.6	
MCV (fL)	73.0	68.6 - 77.4	79.8	75.0 - 84.6	84.0	79.8 - 88.2	
MCH (pg)	24.6	23.4 - 25.8	28.2	27.0 - 29.3	30.2	29.0 - 31.4	
MCHC (g/dL)	33.7	31.0 - 36.4	35.3	32.8 - 37.8	36.0	33.4 - 38.5	
PLT (10 ⁹ /L)	60	46 - 74	240	216 - 264	568	523 - 613	
RDW-SD (fL)	43.9	40.0 - 47.9	45.3	41.2 - 49.3	45.7	41.6 - 49.8	
RDW-CV (%)	16.7	15.4 - 18.0	15.8	14.8 - 16.7	15.3	14.3 - 16.2	
MPV (fL)	9.1	7.9 - 10.2	9.4	8.6 - 10.1	9.5	8.8 - 10.2	
WBC (10 ⁹ /L)	2.90	2.56 - 3.25	6.90	6.28 - 7.52	16.19	14.89 - 17.48	
NEUT%	43.3	37.2 - 49.4	47.9	43.1 - 52.7	51.4	46.3 - 56.6	
LYMPH%	39.2	32.1 - 46.2	33.2	28.2 - 38.1	29.3	24.9 - 33.7	
MONO%	8.6	3.9 - 13.2	8.4	5.1 - 11.7	8.1	4.9 - 11.2	
EO%	9.0	5.6 - 12.4	10.5	6.6 - 14.4	11.2	7.2 - 15.2	
BASO%	61.3	54.5 - 68.0	68.4	63.6 - 73.2	72.6	69.0 - 76.2	
NEUT# (10 ⁹ /L)	1.26	1.01 - 1.51	3.30	2.81 - 3.80	8.33	7.24 - 9.41	
LYMPH# (10 ⁹ /L)	1.14	0.88 - 1.40	2.29	1.85 - 2.72	4.74	3.93 - 5.55	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.58	0.34 - 0.83	1.31	0.79 - 1.83	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.72	0.44 - 1.01	1.81	1.14 - 2.48	
BASO# (10 ⁹ /L)	1.78	1.46 - 2.10	4.72	4.10 - 5.33	11.75	10.58 - 12.93	
NRBC# (10 ⁹ /L)	2.89	2.40 - 3.38	6.89	5.99 - 7.79	16.97	14.93 - 19.00	
NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A	
PLT-O (10 ⁹ /L)	62	41 - 84	227	188 - 266	537	457 - 618	
RET# (10 ¹² /L)	0.1252	0.0864 - 0.1640	0.1021	0.0715 - 0.1328	0.0484	0.0349 - 0.0620	
RET%	5.50	3.96 - 7.04	2.34	1.71 - 2.97	0.94	0.61 - 1.26	
IRF (%)	35.7	6.1 - 65.2	29.6	2.4 - 56.9	22.2	1.1 - 43.3	
^a IG (#)	0.29	0.22 - 0.37	0.77	0.60 - 0.93	1.95	1.56 - 2.34	
^a IG (%)	10.15	8.02 - 12.28	11.10	8.99 - 13.21	12.06	9.77 - 14.36	
^c RET-He (pg)	22.9	19.7 - 26.1	23.5	20.2 - 26.8	25.2	21.1 - 29.2	
^d IPF (%)	21.2	17.2 - 25.3	21.4	17.3 - 25.5	21.5	17.4 - 25.6	

^aIG values are only available with the Sysmex XE-Series IG Master software.
^cRET-He values are only available with the Sysmex XE-Series RET Master software.

^bHPC values are only available with the Sysmex XE-Series HPC Master software.
^dIPF values are only available with the Sysmex XE-Series IPF Master software.



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

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

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Lot Number:		01060801		01060802		01060803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.28	2.18 - 2.37	4.37	4.24 - 4.50	5.12	4.96 - 5.27	
HGB (g/dL)	5.6	5.4 - 5.9	12.3	11.9 - 12.6	15.5	15.0 - 15.9	
HCT (%)	16.6	15.6 - 17.6	34.9	33.1 - 36.6	43.4	41.2 - 45.6	
MCV (fL)	73.0	68.6 - 77.4	79.8	75.0 - 84.6	84.8	80.6 - 89.1	
MCH (pg)	24.7	23.5 - 26.0	28.0	26.9 - 29.1	30.2	29.0 - 31.4	
MCHC (g/dL)	33.9	31.2 - 36.6	35.1	32.7 - 37.6	35.6	33.1 - 38.1	
PLT (10 ⁹ /L)	60	46 - 74	235	212 - 259	534	491 - 577	
RDW-SD (fL)	43.5	39.6 - 47.4	44.8	40.8 - 48.8	45.7	41.6 - 49.8	
RDW-CV (%)	16.5	15.2 - 17.8	15.6	14.7 - 16.5	15.3	14.3 - 16.2	
MPV (fL)	9.1	7.9 - 10.2	9.4	8.6 - 10.1	9.5	8.8 - 10.2	
WBC (10 ⁹ /L)	2.82	2.48 - 3.15	6.48	5.90 - 7.07	15.87	14.60 - 17.13	
NEUT%	43.9	37.7 - 50.0	47.7	42.9 - 52.4	52.0	46.8 - 57.2	
LYMPH%	38.8	31.8 - 45.8	33.5	28.5 - 38.5	29.0	24.6 - 33.3	
MONO%	8.5	3.9 - 13.0	8.4	5.1 - 11.7	7.8	4.8 - 10.9	
EO%	8.9	5.5 - 12.3	10.4	6.5 - 14.2	11.2	7.2 - 15.2	
BASO%	61.3	54.5 - 68.0	69.1	64.2 - 73.9	72.6	69.0 - 76.2	
NEUT# (10 ⁹ /L)	1.24	0.99 - 1.48	3.09	2.63 - 3.55	8.25	7.17 - 9.32	
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.34	2.17	1.76 - 2.58	4.60	3.82 - 5.38	
MONO# (10 ⁹ /L)	0.24	0.10 - 0.37	0.55	0.32 - 0.78	1.24	0.75 - 1.74	
EO# (10 ⁹ /L)	0.25	0.15 - 0.35	0.67	0.41 - 0.94	1.78	1.12 - 2.43	
BASO# (10 ⁹ /L)	1.73	1.41 - 2.04	4.48	3.90 - 5.06	11.52	10.36 - 12.67	
NRBC# (10 ⁹ /L)	2.86	2.37 - 3.35	6.61	5.75 - 7.47	16.80	14.78 - 18.81	
NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A	
PLT-O (10 ⁹ /L)	63	42 - 84	227	188 - 266	521	443 - 599	
RET# (10 ¹² /L)	0.1227	0.0847 - 0.1607	0.1011	0.0708 - 0.1315	0.0477	0.0344 - 0.0611	
RET%	5.39	3.88 - 6.90	2.31	1.69 - 2.94	0.93	0.61 - 1.26	
IRF (%)	33.9	5.8 - 62.0	29.6	2.4 - 56.9	23.1	1.2 - 45.1	
^a IG (#)	0.29	0.21 - 0.36	0.72	0.57 - 0.87	1.91	1.53 - 2.30	
^a IG (%)	10.15	8.02 - 12.28	11.10	8.99 - 13.21	12.06	9.77 - 14.36	
^c RET-He (pg)	22.4	19.3 - 25.5	23.1	19.8 - 26.3	24.7	20.7 - 28.6	
^d IPF (%)	21.2	17.2 - 25.3	21.4	17.3 - 25.5	21.5	17.4 - 25.6	

^aIG values are only available with the Sysmex XE-Series IG Master software.
^cRET-He values are only available with the Sysmex XE-Series RET Master software.

^bHPC values are only available with the Sysmex XE-Series HPC Master software.
^dIPF values are only available with the Sysmex XE-Series IPF Master software.