



e-CHECK™

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

Expiration Date:		2021-09-27		Quality Control Data Due Date #1: 16-Aug-21		Quality Control Data Due Date #2: 27-Sep-21	
Lot Number:		11880801		11880802		11880803	
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)	2.30	2.21 - 2.39	4.32	4.19 - 4.45	5.18	5.03 - 5.34
	HGB (g/dL)	5.7	5.5 - 6.0	12.6	12.2 - 13.0	16.6	16.1 - 17.1
	HCT (%)	17.2	16.2 - 18.2	36.4	34.6 - 38.2	47.0	44.6 - 49.3
	MCV (fL)	74.8	70.3 - 79.3	84.3	79.2 - 89.4	90.6	86.0 - 95.1
	MCH (pg)	24.9	23.7 - 26.2	29.2	28.0 - 30.3	31.9	30.7 - 33.2
	MCHC (g/dL)	33.3	30.6 - 36.0	34.6	32.2 - 37.0	35.3	32.8 - 37.7
	PLT (10 ⁹ /L)	63	48 - 77	253	227 - 278	602	554 - 650
	RDW-SD (fL)	46.6	42.4 - 50.8	42.1	38.3 - 45.9	43.1	39.2 - 47.0
	RDW-CV (%)	17.0	15.6 - 18.3	13.8	13.0 - 14.7	13.4	12.6 - 14.2
	MPV (fL)	8.8	7.7 - 10.0	9.2	8.4 - 9.9	9.3	8.7 - 10.0
	WBC (10 ⁹ /L)	2.93	2.58 - 3.28	6.76	6.15 - 7.36	16.05	14.76 - 17.33
	NEUT%	45.1	38.8 - 51.5	49.4	44.4 - 54.3	52.0	46.8 - 57.2
	LYMPH%	36.5	29.9 - 43.0	31.8	27.0 - 36.6	28.4	24.2 - 32.7
	MONO%	8.8	4.1 - 13.6	8.7	5.3 - 12.1	8.3	5.0 - 11.5
	EO%	9.6	5.9 - 13.2	10.1	6.4 - 13.9	11.3	7.2 - 15.4
	BASO%	64.8	57.6 - 71.9	68.9	64.0 - 73.7	73.2	69.5 - 76.8
NEUT# (10 ⁹ /L)	1.32	1.06 - 1.59	3.33	2.83 - 3.83	8.34	7.26 - 9.43	
LYMPH# (10 ⁹ /L)	1.07	0.82 - 1.32	2.15	1.74 - 2.56	4.56	3.79 - 5.34	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.40	0.59	0.34 - 0.83	1.33	0.80 - 1.86	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.69	0.42 - 0.95	1.81	1.14 - 2.49	
BASO# (10 ⁹ /L)	1.90	1.56 - 2.24	4.65	4.05 - 5.26	11.74	10.57 - 12.92	



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Lot Number:		11880801		11880802		11880803	
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)	2.30	2.21 - 2.39	4.32	4.19 - 4.45	5.13	4.98 - 5.29
	HGB (g/dL)	5.8	5.5 - 6.0	12.5	12.2 - 12.9	16.4	15.9 - 16.9
	HCT (%)	17.2	16.2 - 18.2	36.4	34.6 - 38.2	47.0	44.6 - 49.3
	MCV (fL)	74.8	70.3 - 79.3	84.3	79.2 - 89.4	91.5	86.9 - 96.1
	MCH (pg)	25.0	23.8 - 26.3	29.0	27.9 - 30.2	31.9	30.7 - 33.2
	MCHC (g/dL)	33.5	30.8 - 36.1	34.4	32.0 - 36.8	34.9	32.5 - 37.4
	PLT (10 ⁹ /L)	63	48 - 77	248	223 - 272	566	520 - 611
	RDW-SD (fL)	46.2	42.0 - 50.3	41.6	37.9 - 45.4	43.1	39.2 - 47.0
	RDW-CV (%)	16.8	15.4 - 18.1	13.7	12.9 - 14.5	13.4	12.6 - 14.2
	MPV (fL)	8.8	7.7 - 10.0	9.2	8.4 - 9.9	9.3	8.7 - 10.0
	WBC (10 ⁹ /L)	2.84	2.50 - 3.18	6.35	5.78 - 6.92	15.73	14.47 - 16.98
	NEUT%	45.7	39.3 - 52.1	49.5	44.6 - 54.5	52.5	47.3 - 57.8
	LYMPH%	36.1	29.6 - 42.6	32.5	27.6 - 37.3	28.1	23.9 - 32.4
	MONO%	8.7	4.0 - 13.4	8.0	4.9 - 11.1	8.0	4.9 - 11.2
	EO%	9.5	5.9 - 13.1	10.0	6.3 - 13.8	11.3	7.2 - 15.4
	BASO%	64.8	57.6 - 71.9	69.5	64.7 - 74.4	73.2	69.5 - 76.8
NEUT# (10 ⁹ /L)	1.30	1.04 - 1.56	3.14	2.67 - 3.62	8.26	7.19 - 9.33	
LYMPH# (10 ⁹ /L)	1.03	0.79 - 1.26	2.06	1.67 - 2.45	4.43	3.67 - 5.18	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.51	0.29 - 0.72	1.26	0.76 - 1.77	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.64	0.39 - 0.89	1.78	1.12 - 2.44	
BASO# (10 ⁹ /L)	1.84	1.51 - 2.17	4.42	3.84 - 4.99	11.51	10.36 - 12.66	



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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:		2021-09-27		Quality Control Data Due Date #1: 16-Aug-21		Quality Control Data Due Date #2: 27-Sep-21	
Lot Number:		11880801		11880802		11880803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.29	2.20 - 2.38	4.30	4.17 - 4.43	5.16	5.01 - 5.32	
HGB (g/dL)	5.7	5.4 - 5.9	12.5	12.1 - 12.9	16.5	16.0 - 17.0	
HCT (%)	16.7	15.7 - 17.7	35.3	33.5 - 37.0	45.5	43.2 - 47.8	
MCV (fL)	72.7	68.3 - 77.1	82.1	77.1 - 87.0	88.1	83.7 - 92.5	
MCH (pg)	24.8	23.5 - 26.0	29.1	27.9 - 30.2	31.9	30.7 - 33.2	
MCHC (g/dL)	34.1	31.3 - 36.8	35.4	32.9 - 37.9	36.3	33.7 - 38.8	
PLT (10 ⁹ /L)	61	47 - 76	248	223 - 273	594	546 - 641	
RDW-SD (fL)	45.8	41.7 - 49.9	42.2	38.4 - 45.9	43.4	39.4 - 47.3	
RDW-CV (%)	17.2	15.8 - 18.5	14.2	13.4 - 15.1	13.6	12.8 - 14.4	
MPV (fL)	9.2	8.0 - 10.4	9.5	8.7 - 10.2	9.7	9.0 - 10.3	
WBC (10 ⁹ /L)	2.86	2.52 - 3.21	6.81	6.20 - 7.42	16.29	14.99 - 17.59	
NEUT%	45.2	38.9 - 51.5	49.5	44.6 - 54.5	52.0	46.8 - 57.3	
LYMPH%	36.1	29.6 - 42.6	31.7	26.9 - 36.4	28.3	24.0 - 32.5	
MONO%	9.0	4.1 - 13.8	8.7	5.3 - 12.1	8.2	5.0 - 11.4	
EO%	9.8	6.1 - 13.5	10.1	6.4 - 13.8	11.5	7.3 - 15.6	
BASO%	64.6	57.5 - 71.7	68.8	64.0 - 73.6	73.1	69.5 - 76.8	
NEUT# (10 ⁹ /L)	1.29	1.04 - 1.55	3.37	2.87 - 3.88	8.48	7.38 - 9.58	
LYMPH# (10 ⁹ /L)	1.03	0.80 - 1.27	2.16	1.75 - 2.57	4.61	3.82 - 5.39	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.40	0.59	0.34 - 0.84	1.34	0.80 - 1.87	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.69	0.42 - 0.95	1.87	1.18 - 2.56	
BASO# (10 ⁹ /L)	1.85	1.52 - 2.18	4.68	4.07 - 5.29	11.91	10.72 - 13.10	
NRBC# (10 ⁹ /L)	2.88	2.39 - 3.36	6.91	6.02 - 7.81	17.63	15.51 - 19.74	
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 - 83	233	193 - 273	573	487 - 659	
RET# (10 ¹² /L)	0.1186	0.0818 - 0.1554	0.0968	0.0678 - 0.1258	0.0486	0.0350 - 0.0622	
RET%	5.17	3.72 - 6.62	2.25	1.64 - 2.86	0.94	0.61 - 1.27	
IRF (%)	31.4	5.3 - 57.5	27.9	2.2 - 53.5	22.0	1.1 - 42.9	
^a IG (#)	0.30	0.23 - 0.38	0.78	0.62 - 0.95	1.98	1.58 - 2.37	
^a IG (%)	10.50	8.30 - 12.71	11.51	9.32 - 13.70	12.15	9.84 - 14.45	
^c RET-He (pg)	22.4	19.3 - 25.6	23.2	19.9 - 26.4	25.2	21.2 - 29.2	
^d IPF (%)	21.8	17.6 - 25.9	22.2	18.0 - 26.5	21.8	17.7 - 26.0	

^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

CLOSED MODE ASSAY

Expiration Date:		2021-09-27		Quality Control Data Due Date #1: 16-Aug-21		Quality Control Data Due Date #2: 27-Sep-21	
Lot Number:		11880801		11880802		11880803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.29	2.20 - 2.38	4.30	4.17 - 4.43	5.11	4.96 - 5.26	
HGB (g/dL)	5.7	5.5 - 5.9	12.4	12.1 - 12.8	16.3	15.8 - 16.8	
HCT (%)	16.7	15.7 - 17.7	35.3	33.5 - 37.0	45.5	43.2 - 47.8	
MCV (fL)	72.7	68.3 - 77.1	82.1	77.1 - 87.0	89.0	84.5 - 93.4	
MCH (pg)	24.9	23.6 - 26.1	28.9	27.8 - 30.1	31.9	30.7 - 33.2	
MCHC (g/dL)	34.2	31.5 - 37.0	35.2	32.8 - 37.7	35.9	33.4 - 38.4	
PLT (10 ⁹ /L)	61	47 - 76	243	219 - 268	558	513 - 603	
RDW-SD (fL)	45.3	41.2 - 49.4	41.7	38.0 - 45.5	43.4	39.4 - 47.3	
RDW-CV (%)	17.0	15.6 - 18.4	14.1	13.2 - 14.9	13.6	12.8 - 14.4	
MPV (fL)	9.2	8.0 - 10.4	9.5	8.7 - 10.2	9.7	9.0 - 10.3	
WBC (10 ⁹ /L)	2.78	2.44 - 3.11	6.40	5.82 - 6.98	15.96	14.69 - 17.24	
NEUT%	45.7	39.3 - 52.1	49.3	44.4 - 54.2	52.6	47.3 - 57.8	
LYMPH%	35.7	29.3 - 42.1	32.0	27.2 - 36.8	28.0	23.8 - 32.2	
MONO%	8.9	4.1 - 13.7	8.7	5.3 - 12.1	8.0	4.9 - 11.1	
EO%	9.7	6.0 - 13.3	10.0	6.3 - 13.7	11.5	7.3 - 15.6	
BASO%	64.6	57.5 - 71.7	69.5	64.6 - 74.3	73.1	69.5 - 76.8	
NEUT# (10 ⁹ /L)	1.27	1.02 - 1.52	3.16	2.68 - 3.63	8.39	7.30 - 9.48	
LYMPH# (10 ⁹ /L)	0.99	0.76 - 1.22	2.05	1.66 - 2.44	4.47	3.71 - 5.23	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.56	0.32 - 0.79	1.27	0.76 - 1.78	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.64	0.39 - 0.89	1.83	1.15 - 2.51	
BASO# (10 ⁹ /L)	1.79	1.47 - 2.12	4.45	3.87 - 5.02	11.67	10.50 - 12.84	
NRBC# (10 ⁹ /L)	2.85	2.36 - 3.33	6.64	5.77 - 7.50	17.45	15.36 - 19.55	
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	41 - 84	233	193 - 273	556	473 - 639	
RET# (10 ¹² /L)	0.1162	0.0802 - 0.1523	0.0958	0.0671 - 0.1246	0.0478	0.0344 - 0.0612	
RET%	5.07	3.65 - 6.49	2.23	1.63 - 2.83	0.94	0.61 - 1.26	
IRF (%)	29.8	5.1 - 54.6	27.9	2.2 - 53.5	22.9	1.1 - 44.6	
^a IG (#)	0.29	0.22 - 0.36	0.74	0.58 - 0.89	1.94	1.55 - 2.33	
^a IG (%)	10.51	8.30 - 12.71	11.51	9.32 - 13.70	12.15	9.84 - 14.45	
^c RET-He (pg)	22.0	18.9 - 25.1	22.7	19.5 - 25.9	24.7	20.8 - 28.7	
^d IPF (%)	21.8	17.6 - 25.9	22.2	18.0 - 26.5	21.8	17.7 - 26.0	

^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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