



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100D™ ANALYZERS IN BLOOD CENTERS

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 ¹² /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 ⁹ /L)	61	47 - 75	246	221 - 271	588	541 - 635
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 ⁹ /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	69.3 - 75.1
NEUT# (10 ⁹ /L)	1.21	0.97 - 1.45	3.20	2.72 - 3.68	8.40	7.31 - 9.49
LYMPH# (10 ⁹ /L)	1.11	0.85 - 1.37	2.29	1.85 - 2.73	4.70	3.90 - 5.50
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.60	0.35 - 0.85	1.43	0.86 - 2.00
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.70	0.43 - 0.97	1.74	1.10 - 2.38
BASO# (10 ⁹ /L)	1.76	1.44 - 2.08	4.56	3.97 - 5.15	11.75	10.58 - 12.93

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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 ¹² /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 ⁹ /L)	61	47 - 75	241	217 - 265	553	509 - 597
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 ⁹ /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 ⁹ /L)	1.19	0.95 - 1.43	3.02	2.57 - 3.47	8.32	7.24 - 9.40
LYMPH# (10 ⁹ /L)	1.07	0.82 - 1.32	2.19	1.77 - 2.61	4.56	3.78 - 5.34
MONO# (10 ⁹ /L)	0.24	0.11 - 0.37	0.52	0.30 - 0.74	1.35	0.81 - 1.89
EO# (10 ⁹ /L)	0.25	0.15 - 0.35	0.65	0.40 - 0.90	1.71	1.08 - 2.34
BASO# (10 ⁹ /L)	1.70	1.39 - 2.01	4.33	3.77 - 4.89	11.51	10.36 - 12.66

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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:		2020-03-16		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 ¹² /L)	2.28	2.19 - 2.37	4.32	4.19 - 4.45	5.21	5.05 - 5.37	
HGB (g/dL)	5.5	5.3 - 5.7	12.2	11.8 - 12.6	16.3	15.8 - 16.8	
HCT (%)	16.2	15.2 - 17.2	34.3	32.6 - 36.0	44.6	42.4 - 46.8	
MCV (fL)	71.1	66.8 - 75.4	79.4	74.6 - 84.2	85.6	81.3 - 89.9	
MCH (pg)	24.1	22.9 - 25.3	28.2	27.1 - 29.3	31.2	30.0 - 32.4	
MCHC (g/dL)	33.9	31.2 - 36.6	35.6	33.1 - 38.1	36.5	33.9 - 39.1	
PLT (10 ⁹ /L)	60	46 - 74	239	215 - 263	577	531 - 623	
RDW-SD (fL)	43.6	39.7 - 47.5	43.8	39.9 - 47.7	44.5	40.5 - 48.5	
RDW-CV (%)	16.9	15.5 - 18.3	15.2	14.3 - 16.1	14.5	13.6 - 15.4	
MPV (fL)	9.5	8.3 - 10.7	9.8	9.0 - 10.6	9.9	9.2 - 10.6	
WBC (10 ⁹ /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 ⁹ /L)	1.21	0.97 - 1.45	3.20	2.72 - 3.68	8.40	7.31 - 9.49	
LYMPH# (10 ⁹ /L)	1.11	0.85 - 1.37	2.29	1.85 - 2.73	4.70	3.90 - 5.50	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.60	0.35 - 0.85	1.43	0.86 - 2.00	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.70	0.43 - 0.97	1.74	1.10 - 2.38	
BASO# (10 ⁹ /L)	1.76	1.44 - 2.08	4.56	3.97 - 5.15	11.75	10.58 - 12.93	
NRBC# (10 ⁹ /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 ⁹ /L)	60	40 - 80	231	192 - 270	550	468 - 633	
RET# (10 ¹² /L)	0.1211	0.0836 - 0.1586	0.0981	0.0687 - 0.1275	0.0511	0.0368 - 0.0654	
RET%	5.31	3.82 - 6.80	2.27	1.66 - 2.88	0.98	0.64 - 1.32	
IRF (%)	32.0	5.4 - 58.6	29.1	2.3 - 55.9	20.2	1.0 - 39.4	
^a IG (#)	0.28	0.21 - 0.35	0.75	0.59 - 0.91	1.98	1.58 - 2.38	
^a IG (%)	10.00	7.90 - 12.10	10.98	8.89 - 13.07	12.14	9.83 - 14.45	
^c RET-He (pg)	23.9	20.6 - 27.2	24.6	21.2 - 28.0	26.2	22.0 - 30.4	
^d IPF (%)	21.8	17.7 - 25.9	22.0	17.8 - 26.2	22.1	17.9 - 26.3	

^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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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 ¹² /L)	2.28	2.19 - 2.37	4.32	4.19 - 4.45	5.16	5.01 - 5.31	
HGB (g/dL)	5.5	5.3 - 5.7	12.1	11.8 - 12.5	16.1	15.6 - 16.6	
HCT (%)	16.2	15.2 - 17.2	34.3	32.6 - 36.0	44.6	42.4 - 46.8	
MCV (fL)	71.1	66.8 - 75.4	79.4	74.6 - 84.2	86.4	82.1 - 90.7	
MCH (pg)	24.2	23.0 - 25.4	28.1	27.0 - 29.2	31.2	30.0 - 32.4	
MCHC (g/dL)	34.1	31.4 - 36.8	35.4	32.9 - 37.9	36.1	33.6 - 38.6	
PLT (10 ⁹ /L)	60	46 - 74	234	211 - 257	542	499 - 585	
RDW-SD (fL)	43.2	39.3 - 47.1	43.4	39.5 - 47.3	44.5	40.5 - 48.5	
RDW-CV (%)	16.7	15.4 - 18.0	15.0	14.1 - 15.9	14.5	13.6 - 15.4	
MPV (fL)	9.5	8.3 - 10.7	9.8	9.0 - 10.6	9.9	9.2 - 10.6	
WBC (10 ⁹ /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	47.0	42.3 - 51.7	52.2	47.0 - 57.4	
LYMPH%	38.8	31.8 - 45.8	34.0	28.9 - 39.1	28.6	24.3 - 32.9	
MONO%	8.9	4.1 - 13.7	8.8	5.4 - 12.2	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 ⁹ /L)	1.19	0.95 - 1.43	3.00	2.55 - 3.45	8.32	7.24 - 9.40	
LYMPH# (10 ⁹ /L)	1.07	0.82 - 1.32	2.17	1.76 - 2.58	4.56	3.78 - 5.34	
MONO# (10 ⁹ /L)	0.24	0.11 - 0.37	0.56	0.32 - 0.80	1.35	0.81 - 1.89	
EO# (10 ⁹ /L)	0.25	0.15 - 0.35	0.65	0.40 - 0.90	1.71	1.08 - 2.34	
BASO# (10 ⁹ /L)	1.70	1.39 - 2.01	4.33	3.77 - 4.89	11.51	10.36 - 12.66	
NRBC# (10 ⁹ /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 ⁹ /L)	61	40 - 82	231	192 - 270	534	454 - 614	
RET# (10 ¹² /L)	0.1186	0.0818 - 0.1554	0.0972	0.0680 - 0.1264	0.0506	0.0364 - 0.0648	
RET%	5.20	3.74 - 6.66	2.25	1.64 - 2.86	0.98	0.64 - 1.32	
IRF (%)	30.4	5.2 - 55.6	29.1	2.3 - 55.9	21.0	1.1 - 41.0	
^a IG (#)	0.28	0.21 - 0.35	0.70	0.55 - 0.85	1.94	1.55 - 2.33	
^a IG (%)	10.00	7.90 - 12.10	10.98	8.89 - 13.07	12.14	9.83 - 14.45	
^c RET-He (pg)	23.4	20.1 - 26.7	24.1	20.7 - 27.5	25.7	21.6 - 29.8	
^d IPF (%)	21.8	17.7 - 25.9	22.0	17.8 - 26.2	22.1	17.9 - 26.3	

^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.