



e-CHECK™

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

OPEN MODE ASSAY

Expiration Date:		2020-05-11		Quality Control Data Due Date #1: 30-Mar-20		Quality Control Data Due Date #2: 11-May-20	
Lot Number:		00500801		00500802		00500803	
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	4.33	4.20 - 4.46	5.22	5.06 - 5.38	
HGB (g/dL)	5.7	5.5 - 5.9	12.5	12.1 - 12.8	16.2	15.8 - 16.7	
HCT (%)	17.5	16.5 - 18.6	36.6	34.8 - 38.4	46.6	44.3 - 48.9	
MCV (fL)	76.4	71.8 - 81.0	84.5	79.4 - 89.6	89.3	84.8 - 93.8	
MCH (pg)	24.9	23.7 - 26.1	28.8	27.6 - 30.0	31.1	29.9 - 32.3	
MCHC (g/dL)	32.6	30.0 - 35.2	34.1	31.7 - 36.5	34.8	32.4 - 37.2	
PLT (10 ⁹ /L)	62	48 - 76	245	221 - 270	583	536 - 630	
RDW-SD (fL)	45.2	41.1 - 49.3	44.9	40.9 - 48.9	44.3	40.3 - 48.3	
RDW-CV (%)	16.4	15.1 - 17.7	14.6	13.7 - 15.5	13.8	13.0 - 14.6	
MPV (fL)	9.1	7.9 - 10.3	9.4	8.6 - 10.2	9.5	8.8 - 10.2	
WBC (10 ⁹ /L)	2.90	2.55 - 3.25	6.87	6.25 - 7.49	16.28	14.98 - 17.58	
NEUT%	42.3	36.4 - 48.2	47.0	42.3 - 51.7	51.5	46.4 - 56.7	
LYMPH%	39.3	32.2 - 46.4	34.4	29.2 - 39.6	29.8	25.3 - 34.3	
MONO%	9.1	4.2 - 14.0	8.9	5.4 - 12.4	8.2	5.0 - 11.4	
EO%	9.3	5.8 - 12.8	9.7	6.1 - 13.3	10.5	6.7 - 14.3	
BASO%	61.7	54.9 - 68.5	67.0	62.3 - 71.7	71.8	68.2 - 75.4	
NEUT# (10 ⁹ /L)	1.23	0.98 - 1.48	3.23	2.75 - 3.71	8.39	7.30 - 9.48	
LYMPH# (10 ⁹ /L)	1.14	0.88 - 1.40	2.36	1.91 - 2.81	4.85	4.03 - 5.67	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.61	0.35 - 0.87	1.33	0.80 - 1.86	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.67	0.41 - 0.93	1.71	1.08 - 2.34	
BASO# (10 ⁹ /L)	1.79	1.47 - 2.11	4.60	4.00 - 5.20	11.69	10.52 - 12.86	

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Lot Number:		00500801		00500802		00500803	
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	4.33	4.20 - 4.46	5.17	5.01 - 5.33	
HGB (g/dL)	5.7	5.5 - 6.0	12.4	12.0 - 12.8	16.1	15.6 - 16.6	
HCT (%)	17.5	16.5 - 18.6	36.6	34.8 - 38.4	46.6	44.3 - 48.9	
MCV (fL)	76.4	71.8 - 81.0	84.5	79.4 - 89.6	90.1	85.6 - 94.6	
MCH (pg)	25.0	23.8 - 26.3	28.7	27.6 - 29.8	31.1	29.9 - 32.3	
MCHC (g/dL)	32.7	30.1 - 35.3	33.9	31.5 - 36.3	34.5	32.1 - 36.9	
PLT (10 ⁹ /L)	62	48 - 76	240	216 - 264	548	504 - 592	
RDW-SD (fL)	44.7	40.7 - 48.7	44.5	40.5 - 48.5	44.3	40.3 - 48.3	
RDW-CV (%)	16.2	14.9 - 17.5	14.5	13.6 - 15.4	13.8	13.0 - 14.6	
MPV (fL)	9.1	7.9 - 10.3	9.4	8.6 - 10.2	9.5	8.8 - 10.2	
WBC (10 ⁹ /L)	2.81	2.47 - 3.15	6.46	5.88 - 7.04	15.95	14.67 - 17.23	
NEUT%	42.9	36.9 - 48.9	47.1	42.4 - 51.8	52.0	46.8 - 57.2	
LYMPH%	38.9	31.9 - 45.9	35.1	29.8 - 40.4	29.5	25.1 - 33.9	
MONO%	9.0	4.1 - 13.9	8.2	5.0 - 11.4	8.0	4.9 - 11.1	
EO%	9.2	5.7 - 12.7	9.6	6.0 - 13.2	10.5	6.7 - 14.3	
BASO%	61.7	54.9 - 68.5	67.7	63.0 - 72.4	71.8	68.2 - 75.4	
NEUT# (10 ⁹ /L)	1.21	0.97 - 1.45	3.04	2.58 - 3.50	8.29	7.21 - 9.37	
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.34	2.27	1.84 - 2.70	4.71	3.91 - 5.51	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.53	0.31 - 0.75	1.28	0.77 - 1.79	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.62	0.38 - 0.86	1.67	1.05 - 2.29	
BASO# (10 ⁹ /L)	1.73	1.42 - 2.04	4.37	3.80 - 4.94	11.45	10.31 - 12.60	

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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:		2020-05-11		Quality Control Data Due Date #1: 30-Mar-20		Quality Control Data Due Date #2: 11-May-20	
Lot Number:		00500801		00500802		00500803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.27	2.18 - 2.36	4.30	4.17 - 4.43	5.14	4.99 - 5.29	
HGB (g/dL)	5.7	5.4 - 5.9	12.4	12.0 - 12.7	16.0	15.5 - 16.5	
HCT (%)	16.6	15.6 - 17.6	35.2	33.4 - 37.0	44.7	42.5 - 46.9	
MCV (fL)	73.1	68.7 - 77.5	81.9	77.0 - 86.8	87.0	82.7 - 91.4	
MCH (pg)	24.9	23.7 - 26.1	28.7	27.6 - 29.8	31.1	29.9 - 32.3	
MCHC (g/dL)	34.0	31.3 - 36.7	35.1	32.6 - 37.6	35.8	33.3 - 38.3	
PLT (10 ⁹ /L)	61	47 - 75	240	216 - 264	578	532 - 624	
RDW-SD (fL)	44.4	40.4 - 48.4	43.8	39.9 - 47.7	43.8	39.9 - 47.7	
RDW-CV (%)	16.8	15.5 - 18.1	15.2	14.3 - 16.1	14.4	13.5 - 15.3	
MPV (fL)	9.2	8.0 - 10.4	9.5	8.7 - 10.3	9.7	9.0 - 10.4	
WBC (10 ⁹ /L)	2.90	2.55 - 3.25	6.87	6.25 - 7.49	16.28	14.98 - 17.58	
NEUT%	42.3	36.4 - 48.2	47.0	42.3 - 51.7	51.5	46.4 - 56.7	
LYMPH%	39.3	32.2 - 46.4	34.4	29.2 - 39.6	29.8	25.3 - 34.3	
MONO%	9.1	4.2 - 14.0	8.9	5.4 - 12.4	8.2	5.0 - 11.4	
EO%	9.3	5.8 - 12.8	9.7	6.1 - 13.3	10.5	6.7 - 14.3	
BASO%	61.7	54.9 - 68.5	67.0	62.3 - 71.7	71.8	68.2 - 75.4	
NEUT# (10 ⁹ /L)	1.23	0.98 - 1.48	3.23	2.75 - 3.71	8.39	7.30 - 9.48	
LYMPH# (10 ⁹ /L)	1.14	0.88 - 1.40	2.36	1.91 - 2.81	4.85	4.03 - 5.67	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.61	0.35 - 0.87	1.33	0.80 - 1.86	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.67	0.41 - 0.93	1.71	1.08 - 2.34	
BASO# (10 ⁹ /L)	1.79	1.47 - 2.11	4.60	4.00 - 5.20	11.69	10.52 - 12.86	
NRBC# (10 ⁹ /L)	2.85	2.37 - 3.33	6.70	5.83 - 7.57	16.92	14.89 - 18.95	
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	235	195 - 275	548	466 - 630	
RET# (10 ¹² /L)	0.1239	0.0855 - 0.1623	0.0963	0.0674 - 0.1252	0.0514	0.0370 - 0.0658	
RET%	5.46	3.93 - 6.99	2.24	1.64 - 2.84	1.00	0.65 - 1.35	
IRF (%)	34.8	5.9 - 63.7	29.6	2.4 - 56.8	21.9	1.1 - 42.7	
^a IG (#)	0.29	0.22 - 0.36	0.76	0.60 - 0.92	1.96	1.57 - 2.35	
^a IG (%)	9.89	7.81 - 11.97	11.01	8.92 - 13.10	12.07	9.78 - 14.36	
^c RET-He (pg)	23.6	20.3 - 26.9	24.4	21.0 - 27.8	25.9	21.8 - 30.0	
^d IPF (%)	22.1	17.9 - 26.3	21.9	17.7 - 26.1	21.3	17.3 - 25.3	

^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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Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.27	2.18 - 2.36	4.30	4.17 - 4.43	5.09	4.94 - 5.24	
HGB (g/dL)	5.7	5.5 - 5.9	12.3	11.9 - 12.7	15.8	15.4 - 16.3	
HCT (%)	16.6	15.6 - 17.6	35.2	33.4 - 37.0	44.7	42.5 - 46.9	
MCV (fL)	73.1	68.7 - 77.5	81.9	77.0 - 86.8	87.8	83.4 - 92.2	
MCH (pg)	25.0	23.8 - 26.3	28.6	27.5 - 29.7	31.1	29.9 - 32.3	
MCHC (g/dL)	34.2	31.5 - 36.9	34.9	32.5 - 37.3	35.4	32.9 - 37.9	
PLT (10 ⁹ /L)	61	47 - 75	235	212 - 259	543	500 - 586	
RDW-SD (fL)	44.0	40.0 - 48.0	43.4	39.5 - 47.3	43.8	39.9 - 47.7	
RDW-CV (%)	16.6	15.3 - 17.9	15.0	14.1 - 15.9	14.4	13.5 - 15.3	
MPV (fL)	9.2	8.0 - 10.4	9.5	8.7 - 10.3	9.7	9.0 - 10.4	
WBC (10 ⁹ /L)	2.81	2.47 - 3.15	6.46	5.88 - 7.04	15.95	14.67 - 17.23	
NEUT%	42.9	36.9 - 48.9	46.8	42.1 - 51.5	52.0	46.8 - 57.2	
LYMPH%	38.9	31.9 - 45.9	34.7	29.5 - 39.9	29.5	25.1 - 33.9	
MONO%	9.0	4.1 - 13.9	8.9	5.4 - 12.4	8.0	4.9 - 11.1	
EO%	9.2	5.7 - 12.7	9.6	6.0 - 13.2	10.5	6.7 - 14.3	
BASO%	61.7	54.9 - 68.5	67.7	63.0 - 72.4	71.8	68.2 - 75.4	
NEUT# (10 ⁹ /L)	1.21	0.97 - 1.45	3.03	2.58 - 3.48	8.29	7.21 - 9.37	
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.34	2.24	1.81 - 2.67	4.71	3.91 - 5.51	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.57	0.33 - 0.81	1.28	0.77 - 1.79	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.62	0.38 - 0.86	1.67	1.05 - 2.29	
BASO# (10 ⁹ /L)	1.73	1.42 - 2.04	4.37	3.80 - 4.94	11.45	10.31 - 12.60	
NRBC# (10 ⁹ /L)	2.82	2.34 - 3.30	6.43	5.59 - 7.27	16.75	14.74 - 18.76	
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)	64	42 - 86	235	195 - 275	532	452 - 612	
RET# (10 ¹² /L)	0.1214	0.0838 - 0.1590	0.0955	0.0669 - 0.1242	0.0509	0.0366 - 0.0652	
RET%	5.35	3.85 - 6.85	2.22	1.62 - 2.82	1.00	0.65 - 1.35	
IRF (%)	33.1	5.6 - 60.6	29.6	2.4 - 56.8	22.8	1.1 - 44.5	
^a IG (#)	0.28	0.21 - 0.35	0.71	0.56 - 0.86	1.93	1.54 - 2.32	
^a IG (%)	9.89	7.81 - 11.97	11.01	8.92 - 13.10	12.07	9.78 - 14.36	
^c RET-He (pg)	23.1	19.9 - 26.3	23.9	20.6 - 27.2	25.4	21.3 - 29.5	
^d IPF (%)	22.1	17.9 - 26.3	21.9	17.7 - 26.1	21.3	17.3 - 25.3	

^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.