



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS 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	2.19 - 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)	58	45 - 71	231	208 - 254	549	505 - 593	
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	
NRBC# (10 ⁹ /L)	2.72	2.26 - 3.18	6.52	5.68 - 7.37	16.06	14.14 - 17.99	
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)	65	43 - 87	240	199 - 281	564	479 - 648	
RET# (10 ¹² /L)	0.1383	0.0954 - 0.1811	0.1140	0.0798 - 0.1482	0.0528	0.0380 - 0.0675	
RET%	6.06	4.36 - 7.75	2.58	1.89 - 3.28	1.01	0.66 - 1.36	
IRF (%)	33.9	5.8 - 62.1	28.0	2.2 - 53.8	21.2	1.1 - 41.3	
^a IG (#)	0.29	0.22 - 0.36	0.80	0.63 - 0.96	1.99	1.59 - 2.39	
^a IG (%)	9.91	7.82 - 11.99	11.50	9.32 - 13.69	12.28	9.94 - 14.61	
^b HPC (#)	0.012	0.008 - 0.015	0.032	0.024 - 0.040	0.083	0.062 - 0.103	
^c RET-He (pg)	22.8	19.6 - 26.0	23.8	20.4 - 27.1	25.3	21.3 - 29.4	
^d IPF (%)	21.4	17.4 - 25.5	21.7	17.5 - 25.8	21.7	17.6 - 25.8	

^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-2100™, XE-2100D™ and XE-2100L™ ANALYZERS CLOSED 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	2.19 - 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)	58	45 - 71	227	204 - 249	516	475 - 558	
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	
NRBC# (10 ⁹ /L)	2.69	2.24 - 3.15	6.26	5.45 - 7.08	15.90	13.99 - 17.81	
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)	66	43 - 88	240	199 - 281	547	465 - 629	
RET# (10 ¹² /L)	0.1355	0.0935 - 0.1775	0.1129	0.0790 - 0.1467	0.0520	0.0374 - 0.0665	
RET%	5.94	4.27 - 7.60	2.56	1.87 - 3.25	1.00	0.65 - 1.36	
IRF (%)	32.2	5.5 - 59.0	28.0	2.2 - 53.8	22.0	1.1 - 43.0	
^a IG (#)	0.28	0.21 - 0.35	0.75	0.59 - 0.91	1.95	1.56 - 2.34	
^a IG (%)	9.91	7.82 - 11.99	11.51	9.32 - 13.69	12.28	9.94 - 14.61	
^b HPC (#)	0.012	0.008 - 0.015	0.032	0.024 - 0.040	0.083	0.062 - 0.103	
^c RET-He (pg)	22.4	19.2 - 25.5	23.3	20.0 - 26.5	24.8	20.8 - 28.8	
^d IPF (%)	21.4	17.4 - 25.5	21.7	17.5 - 25.8	21.7	17.6 - 25.8	

^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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e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XT-1800i™ and XT-2000i™ ANALYZERS

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)	2.30	2.21 - 2.39	4.42	4.25 - 4.60	5.29	5.07 - 5.50	
HGB (g/dL)	5.6	5.3 - 5.8	12.1	11.8 - 12.5	15.6	15.2 - 16.1	
HCT (%)	17.5	16.5 - 18.6	36.5	34.7 - 38.3	46.1	43.8 - 48.4	
MCV (fL)	76.2	71.6 - 80.8	82.6	78.4 - 86.7	87.3	82.9 - 91.7	
MCH (pg)	24.1	22.4 - 25.8	27.5	25.8 - 29.1	29.6	28.1 - 31.1	
MCHC (g/dL)	31.7	28.8 - 34.5	33.3	30.9 - 35.6	33.9	31.5 - 36.3	
PLT (10 ⁹ /L)	61	45 - 76	230	204 - 255	538	495 - 581	
RDW-SD (fL)	44.8	40.3 - 49.3	45.7	41.2 - 50.3	45.5	40.1 - 51.0	
RDW-CV (%)	16.6	15.0 - 18.3	15.8	14.5 - 17.0	15.2	14.0 - 16.4	
MPV (fL)	8.9	7.7 - 10.1	9.3	8.6 - 9.9	9.6	9.1 - 10.0	
WBC (10 ⁹ /L)	2.85	2.46 - 3.25	7.01	6.31 - 7.72	16.41	14.93 - 17.88	
NEUT%	43.2	37.1 - 49.2	47.5	42.8 - 52.3	51.1	46.5 - 55.7	
LYMPH%	35.6	27.4 - 43.8	31.5	26.1 - 36.9	27.8	24.1 - 31.4	
MONO%	12.0	4.3 - 19.7	10.9	6.1 - 15.6	10.2	6.2 - 14.1	
EO%	9.3	5.8 - 12.7	10.1	6.5 - 13.8	11.0	7.1 - 14.8	
BASO%	62.6	56.3 - 68.9	67.9	63.8 - 72.0	75.8	72.0 - 79.6	
NEUT# (10 ⁹ /L)	1.23	0.99 - 1.48	3.33	2.83 - 3.83	8.39	7.30 - 9.48	
LYMPH# (10 ⁹ /L)	1.02	0.74 - 1.29	2.21	1.77 - 2.65	4.55	3.83 - 5.28	
MONO# (10 ⁹ /L)	0.34	0.12 - 0.57	0.76	0.42 - 1.11	1.67	1.00 - 2.34	
EO# (10 ⁹ /L)	0.26	0.16 - 0.37	0.71	0.45 - 0.97	1.80	1.15 - 2.44	
BASO# (10 ⁹ /L)	1.79	1.47 - 2.11	4.76	4.19 - 5.34	12.44	11.20 - 13.68	
PLT-O (10 ⁹ /L)	58	38 - 78	221	179 - 263	541	454 - 628	
RET# (10 ¹² /L)	0.1241	0.0881 - 0.1602	0.0875	0.0578 - 0.1173	0.0406	0.0244 - 0.0569	
RET%	5.40	3.99 - 6.80	1.98	1.40 - 2.55	0.77	0.45 - 1.08	
IRF (%)	46.7	12.1 - 81.2	41.1	7.8 - 74.4	28.2	3.4 - 52.9	
^a IG (#)	0.33	0.25 - 0.40	0.90	0.72 - 1.08	2.26	1.31 - 3.21	
^a IG (%)	11.53	9.22 - 13.83	12.78	10.48 - 15.08	13.76	7.98 - 19.54	
^c RET-He (pg)	23.3	21.0 - 25.6	23.6	21.2 - 26.0	24.2	20.8 - 27.5	

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

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HEMATOLOGY CONTROL FOR SYSMEX XT-1800i™ and XT-2000i™ ANALYZERS

CLOSED 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)	2.30	2.21 - 2.39	4.42	4.25 - 4.60	5.18	4.97 - 5.39	
HGB (g/dL)	5.6	5.3 - 5.8	12.3	11.9 - 12.6	15.5	15.0 - 15.9	
HCT (%)	17.5	16.5 - 18.6	36.5	34.7 - 38.3	46.1	43.8 - 48.4	
MCV (fL)	76.2	71.6 - 80.8	82.6	78.4 - 86.7	89.1	84.6 - 93.5	
MCH (pg)	24.1	22.4 - 25.8	27.7	26.1 - 29.4	29.9	28.4 - 31.4	
MCHC (g/dL)	31.7	28.8 - 34.5	33.6	31.2 - 35.9	33.6	31.2 - 35.9	
PLT (10 ⁹ /L)	61	45 - 77	223	198 - 247	495	456 - 535	
RDW-SD (fL)	44.8	40.3 - 49.3	45.7	41.2 - 50.3	45.5	40.1 - 51.0	
RDW-CV (%)	16.6	15.0 - 18.3	15.8	14.5 - 17.0	15.2	14.0 - 16.4	
MPV (fL)	8.9	7.7 - 10.1	9.3	8.6 - 9.9	9.6	9.1 - 10.0	
WBC (10 ⁹ /L)	2.85	2.46 - 3.25	6.80	6.12 - 7.48	15.92	14.48 - 17.35	
NEUT%	43.3	37.3 - 49.4	47.5	42.8 - 52.3	52.0	47.3 - 56.7	
LYMPH%	35.6	27.4 - 43.8	31.5	26.1 - 36.9	27.5	23.9 - 31.0	
MONO%	12.0	4.3 - 19.7	10.6	6.0 - 15.3	9.8	6.0 - 13.6	
EO%	9.1	5.7 - 12.4	10.3	6.6 - 14.0	10.7	7.0 - 14.5	
BASO%	62.0	55.8 - 68.2	67.2	63.2 - 71.3	75.1	71.3 - 78.8	
NEUT# (10 ⁹ /L)	1.24	0.99 - 1.48	3.23	2.75 - 3.72	8.28	7.20 - 9.36	
LYMPH# (10 ⁹ /L)	1.02	0.74 - 1.29	2.14	1.71 - 2.57	4.37	3.67 - 5.07	
MONO# (10 ⁹ /L)	0.34	0.12 - 0.57	0.72	0.40 - 1.05	1.55	0.93 - 2.18	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.70	0.44 - 0.96	1.71	1.09 - 2.32	
BASO# (10 ⁹ /L)	1.77	1.45 - 2.09	4.58	4.03 - 5.12	11.95	10.75 - 13.14	
PLT-O (10 ⁹ /L)	58	38 - 78	221	179 - 263	525	441 - 609	
RET# (10 ¹² /L)	0.1117	0.0793 - 0.1441	0.0875	0.0578 - 0.1173	0.0398	0.0239 - 0.0557	
RET%	4.86	3.59 - 6.12	1.98	1.40 - 2.55	0.77	0.45 - 1.08	
IRF (%)	46.7	12.1 - 81.2	41.1	7.8 - 74.4	28.2	3.4 - 52.9	
^a IG (#)	0.34	0.26 - 0.41	0.89	0.71 - 1.06	2.23	1.30 - 3.17	
^a IG (%)	11.76	9.41 - 14.11	13.04	10.69 - 15.38	14.03	8.14 - 19.93	
^c RET-He (pg)	23.3	21.0 - 25.6	23.6	21.2 - 26.0	24.2	20.8 - 27.5	

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

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