



e-CHECK™

HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS OPEN MODE ASSAY

Expiration Date:		2024-05-06		Quality Control Data Due Date #1: 25-Mar-24		Quality Control Data Due Date #2: 06-May-24	
Lot Number:		40450801		40450802		40450803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.36	2.26 - 2.45	4.32	4.19 - 4.45	5.26	5.11 - 5.42	
HGB (g/dL)	5.9	5.7 - 6.1	11.6	11.3 - 12.0	15.4	15.0 - 15.9	
HCT (%)	17.6	16.6 - 18.7	33.9	32.2 - 35.6	43.8	41.6 - 46.0	
MCV (fL)	74.9	70.4 - 79.4	78.4	73.7 - 83.1	83.2	79.0 - 87.3	
MCH (pg)	25.1	23.8 - 26.3	26.9	25.9 - 28.0	29.3	28.1 - 30.5	
MCHC (g/dL)	33.5	30.8 - 36.2	34.4	32.0 - 36.8	35.2	32.8 - 37.7	
PLT (10 ⁹ /L)	60	46 - 74	226	204 - 249	531	488 - 573	
RDW-SD (fL)	44.7	40.7 - 48.7	47.2	42.9 - 51.4	46.5	42.3 - 50.6	
RDW-CV (%)	16.4	15.1 - 17.7	16.6	15.6 - 17.6	15.5	14.5 - 16.4	
MPV (fL)	9.9	8.6 - 11.2	10.2	9.3 - 11.0	10.3	9.6 - 11.0	
WBC (10 ⁹ /L)	2.98	2.62 - 3.33	6.80	6.19 - 7.41	16.86	15.51 - 18.21	
NEUT%	45.2	38.9 - 51.5	48.5	43.7 - 53.4	52.2	47.0 - 57.5	
LYMPH%	36.3	29.8 - 42.8	32.1	27.3 - 36.9	27.4	23.2 - 31.5	
MONO%	8.7	4.0 - 13.4	9.0	5.5 - 12.5	9.7	5.9 - 13.5	
EO%	9.8	6.1 - 13.5	10.4	6.6 - 14.3	10.7	6.9 - 14.6	
BASO%	64.7	57.6 - 71.8	68.9	64.1 - 73.7	73.3	69.7 - 77.0	
NEUT# (10 ⁹ /L)	1.35	1.08 - 1.61	3.30	2.80 - 3.79	8.81	7.67 - 9.96	
LYMPH# (10 ⁹ /L)	1.08	0.83 - 1.33	2.18	1.77 - 2.60	4.61	3.83 - 5.40	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.61	0.35 - 0.87	1.63	0.98 - 2.29	
EO# (10 ⁹ /L)	0.29	0.17 - 0.41	0.71	0.43 - 0.98	1.81	1.14 - 2.48	
BASO# (10 ⁹ /L)	1.93	1.58 - 2.27	4.68	4.07 - 5.29	12.37	11.13 - 13.61	
NRBC# (10 ⁹ /L)	2.89	2.40 - 3.38	6.63	5.77 - 7.50	17.45	15.36 - 19.54	
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 - 85	220	183 - 258	516	438 - 593	
RET# (10 ¹² /L)	0.1465	0.1011 - 0.1920	0.1116	0.0781 - 0.1450	0.0521	0.0375 - 0.0667	
RET%	6.22	4.48 - 7.96	2.58	1.88 - 3.28	0.99	0.64 - 1.34	
IRF (%)	35.3	6.0 - 64.6	30.9	2.5 - 59.4	22.2	1.1 - 43.3	
^a IG (#)	0.31	0.24 - 0.39	0.76	0.60 - 0.93	2.05	1.64 - 2.47	
^a IG (%)	10.53	8.32 - 12.74	11.25	9.11 - 13.39	12.18	9.87 - 14.50	
^b HPC (#)	0.011	0.008 - 0.015	0.029	0.021 - 0.036	0.083	0.062 - 0.104	
^c RET-He (pg)	25.7	22.1 - 29.3	26.0	22.4 - 29.6	27.0	22.7 - 31.3	
^d IPF (%)	21.6	17.5 - 25.7	21.7	17.6 - 25.8	22.2	18.0 - 26.4	

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

^cRET-He values are only available with the Sysmex XE-Series HPC Master
^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:		2024-05-06		Quality Control Data Due Date #1: 25-Mar-24		Quality Control Data Due Date #2: 06-May-24	
Lot Number:		40450801		40450802		40450803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.36	2.26 - 2.45	4.32	4.19 - 4.45	5.21	5.05 - 5.37	
HGB (g/dL)	5.9	5.7 - 6.2	11.6	11.2 - 11.9	15.3	14.8 - 15.7	
HCT (%)	17.6	16.6 - 18.7	33.9	32.2 - 35.6	43.8	41.6 - 46.0	
MCV (fL)	74.9	70.4 - 79.4	78.4	73.7 - 83.1	84.0	79.8 - 88.2	
MCH (pg)	25.2	23.9 - 26.5	26.8	25.7 - 27.9	29.3	28.1 - 30.5	
MCHC (g/dL)	33.6	31.0 - 36.3	34.2	31.8 - 36.6	34.9	32.4 - 37.3	
PLT (10 ⁹ /L)	60	46 - 74	222	200 - 244	499	459 - 539	
RDW-SD (fL)	44.3	40.3 - 48.2	46.7	42.5 - 50.9	46.5	42.3 - 50.6	
RDW-CV (%)	16.3	15.0 - 17.6	16.4	15.5 - 17.4	15.5	14.5 - 16.4	
MPV (fL)	9.9	8.6 - 11.2	10.2	9.3 - 11.0	10.3	9.6 - 11.0	
WBC (10 ⁹ /L)	2.89	2.54 - 3.23	6.39	5.81 - 6.96	16.53	15.20 - 17.85	
NEUT%	45.7	39.3 - 52.2	48.7	43.8 - 53.6	52.8	47.5 - 58.1	
LYMPH%	35.9	29.5 - 42.4	32.7	27.8 - 37.6	27.1	23.0 - 31.1	
MONO%	8.6	4.0 - 13.3	8.3	5.0 - 11.5	9.4	5.7 - 13.1	
EO%	9.7	6.0 - 13.4	10.3	6.5 - 14.1	10.7	6.9 - 14.6	
BASO%	64.7	57.6 - 71.8	69.6	64.7 - 74.4	73.3	69.7 - 77.0	
NEUT# (10 ⁹ /L)	1.32	1.06 - 1.59	3.11	2.64 - 3.58	8.73	7.59 - 9.86	
LYMPH# (10 ⁹ /L)	1.04	0.80 - 1.28	2.09	1.69 - 2.49	4.48	3.71 - 5.24	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.53	0.31 - 0.75	1.55	0.93 - 2.17	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.66	0.40 - 0.92	1.77	1.12 - 2.43	
BASO# (10 ⁹ /L)	1.87	1.53 - 2.20	4.44	3.87 - 5.02	12.12	10.91 - 13.33	
NRBC# (10 ⁹ /L)	2.86	2.37 - 3.35	6.37	5.54 - 7.20	17.28	15.20 - 19.35	
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	220	183 - 258	500	425 - 575	
RET# (10 ¹² /L)	0.1436	0.0991 - 0.1881	0.1104	0.0773 - 0.1436	0.0513	0.0370 - 0.0657	
RET%	6.10	4.39 - 7.80	2.56	1.87 - 3.25	0.99	0.64 - 1.33	
IRF (%)	33.6	5.7 - 61.4	30.9	2.5 - 59.4	23.1	1.2 - 45.1	
^a IG (#)	0.30	0.23 - 0.38	0.72	0.57 - 0.87	2.01	1.61 - 2.42	
^a IG (%)	10.53	8.32 - 12.74	11.25	9.11 - 13.39	12.18	9.87 - 14.50	
^b HPC (#)	0.011	0.008 - 0.015	0.029	0.021 - 0.036	0.083	0.062 - 0.104	
^c RET-He (pg)	25.2	21.7 - 28.7	25.5	21.9 - 29.0	26.4	22.2 - 30.7	
^d IPF (%)	21.6	17.5 - 25.7	21.7	17.6 - 25.8	22.2	18.0 - 26.4	

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

^cRET-He values are only available with the Sysmex XE-Series HPC Master
^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:		2024-05-06		Quality Control Data Due Date #1: 25-Mar-24		Quality Control Data Due Date #2: 06-May-24	
Lot Number:		40450801		40450802		40450803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.36	2.27 - 2.45	4.36	4.18 - 4.53	5.34	5.12 - 5.55	
HGB (g/dL)	5.8	5.5 - 6.0	11.5	11.1 - 11.8	15.2	14.8 - 15.7	
HCT (%)	18.2	17.1 - 19.3	34.9	33.2 - 36.6	45.4	43.1 - 47.7	
MCV (fL)	77.1	72.5 - 81.8	80.1	76.1 - 84.1	85.1	80.8 - 89.3	
MCH (pg)	24.4	22.7 - 26.1	26.3	24.7 - 27.9	28.5	27.1 - 30.0	
MCHC (g/dL)	31.7	28.8 - 34.5	32.9	30.6 - 35.2	33.5	31.2 - 35.9	
PLT (10 ⁹ /L)	61	45 - 77	225	200 - 250	529	486 - 571	
RDW-SD (fL)	45.2	40.6 - 49.7	47.9	43.1 - 52.6	47.7	42.0 - 53.5	
RDW-CV (%)	16.5	14.8 - 18.1	17.0	15.6 - 18.3	15.8	14.6 - 17.1	
MPV (fL)	10.0	8.7 - 11.3	10.5	9.8 - 11.2	10.8	10.2 - 11.3	
WBC (10 ⁹ /L)	2.90	2.49 - 3.30	6.82	6.14 - 7.51	16.85	15.33 - 18.36	
NEUT%	46.1	39.6 - 52.5	48.1	43.3 - 52.9	51.5	46.9 - 56.2	
LYMPH%	33.7	25.9 - 41.4	31.3	26.0 - 36.6	26.4	22.9 - 29.8	
MONO%	10.3	3.7 - 16.9	10.4	5.8 - 15.0	11.5	7.0 - 16.0	
EO%	10.0	6.3 - 13.6	10.2	6.5 - 13.8	10.6	6.9 - 14.3	
BASO%	65.6	59.0 - 72.1	68.4	64.3 - 72.5	77.3	73.4 - 81.1	
NEUT# (10 ⁹ /L)	1.33	1.07 - 1.60	3.28	2.79 - 3.77	8.68	7.55 - 9.81	
LYMPH# (10 ⁹ /L)	0.98	0.71 - 1.24	2.13	1.71 - 2.56	4.44	3.73 - 5.15	
MONO# (10 ⁹ /L)	0.30	0.10 - 0.50	0.71	0.39 - 1.03	1.94	1.16 - 2.72	
EO# (10 ⁹ /L)	0.29	0.18 - 0.40	0.69	0.44 - 0.95	1.79	1.14 - 2.43	
BASO# (10 ⁹ /L)	1.90	1.56 - 2.24	4.66	4.10 - 5.22	13.01	11.71 - 14.32	
PLT-O (10 ⁹ /L)	55	36 - 75	203	164 - 241	491	412 - 569	
RET# (10 ¹² /L)	0.1338	0.0950 - 0.1726	0.0885	0.0584 - 0.1186	0.0402	0.0241 - 0.0563	
RET%	5.67	4.19 - 7.14	2.03	1.44 - 2.62	0.75	0.44 - 1.06	
IRF (%)	46.5	12.1 - 80.8	39.5	7.5 - 71.4	26.9	3.2 - 50.5	
^a IG (#)	0.35	0.27 - 0.42	0.88	0.70 - 1.06	2.31	1.34 - 3.28	
^a IG (%)	11.92	9.54 - 14.30	12.91	10.58 - 15.23	13.71	7.95 - 19.46	
^b RET-He (pg) ^b	25.6	23.1 - 28.2	25.7	23.1 - 28.2	25.3	21.8 - 28.8	

^aIG values are only available with the Sysmex XT-Series IG Master software.
^bRET-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:		2024-05-06		Quality Control Data Due Date #1: 25-Mar-24		Quality Control Data Due Date #2: 06-May-24	
Lot Number:		40450801		40450802		40450803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.36	2.27 - 2.45	4.36	4.18 - 4.53	5.23	5.02 - 5.44	
HGB (g/dL)	5.8	5.5 - 6.0	11.6	11.2 - 11.9	15.1	14.6 - 15.5	
HCT (%)	18.2	17.1 - 19.3	34.9	33.2 - 36.6	45.4	43.1 - 47.7	
MCV (fL)	77.1	72.5 - 81.8	80.1	76.1 - 84.1	86.8	82.5 - 91.2	
MCH (pg)	24.4	22.7 - 26.1	26.6	25.0 - 28.2	28.8	27.4 - 30.3	
MCHC (g/dL)	31.7	28.8 - 34.5	33.2	30.9 - 35.5	33.2	30.9 - 35.5	
PLT (10 ⁹ /L)	62	46 - 78	218	194 - 242	486	447 - 525	
RDW-SD (fL)	45.2	40.6 - 49.7	47.9	43.1 - 52.6	47.7	42.0 - 53.5	
RDW-CV (%)	16.5	14.8 - 18.1	17.0	15.6 - 18.3	15.8	14.6 - 17.1	
MPV (fL)	10.0	8.7 - 11.3	10.5	9.8 - 11.2	10.8	10.2 - 11.3	
WBC (10 ⁹ /L)	2.90	2.49 - 3.30	6.62	5.96 - 7.28	16.34	14.87 - 17.81	
NEUT%	46.3	39.8 - 52.7	48.1	43.3 - 52.9	52.5	47.7 - 57.2	
LYMPH%	33.7	25.9 - 41.4	31.3	26.0 - 36.6	26.1	22.7 - 29.5	
MONO%	10.3	3.7 - 16.9	10.2	5.7 - 14.7	11.1	6.7 - 15.4	
EO%	9.8	6.2 - 13.4	10.4	6.6 - 14.1	10.4	6.8 - 14.0	
BASO%	64.9	58.4 - 71.4	67.7	63.6 - 71.7	76.5	72.7 - 80.3	
NEUT# (10 ⁹ /L)	1.34	1.07 - 1.61	3.18	2.71 - 3.66	8.57	7.46 - 9.69	
LYMPH# (10 ⁹ /L)	0.98	0.71 - 1.24	2.07	1.66 - 2.48	4.26	3.58 - 4.95	
MONO# (10 ⁹ /L)	0.30	0.10 - 0.50	0.68	0.37 - 0.98	1.81	1.08 - 2.53	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.69	0.43 - 0.94	1.70	1.09 - 2.31	
BASO# (10 ⁹ /L)	1.88	1.54 - 2.22	4.48	3.94 - 5.02	12.50	11.25 - 13.75	
PLT-O (10 ⁹ /L)	55	36 - 75	203	164 - 241	476	400 - 552	
RET# (10 ¹² /L)	0.1204	0.0855 - 0.1553	0.0885	0.0584 - 0.1186	0.0394	0.0237 - 0.0552	
RET%	5.10	3.78 - 6.43	2.03	1.44 - 2.62	0.75	0.44 - 1.06	
IRF (%)	46.5	12.1 - 80.8	39.5	7.5 - 71.4	26.9	3.2 - 50.5	
^a IG (#)	0.35	0.27 - 0.43	0.87	0.70 - 1.05	2.28	1.32 - 3.24	
^a IG (%)	12.16	9.73 - 14.59	13.16	10.79 - 15.53	13.98	8.11 - 19.85	
^b RET-He (pg) ^b	25.6	23.1 - 28.2	25.7	23.1 - 28.2	25.3	21.8 - 28.8	

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

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