



e-CHECK™

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

Expiration Date:		2022-08-29		Quality Control Data Due Date #1: 18-Jul-22		Quality Control Data Due Date #2: 29-Aug-22	
Lot Number:		21590801		21590802		21590803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.44	2.34 - 2.54	4.37	4.24 - 4.50	5.30	5.14 - 5.46	
HGB (g/dL)	5.5	5.3 - 5.7	12.6	12.2 - 13.0	16.5	16.0 - 17.0	
HCT (%)	16.8	15.8 - 17.9	36.3	34.5 - 38.1	46.7	44.4 - 49.1	
MCV (fL)	69.1	64.9 - 73.2	83.0	78.0 - 88.0	88.1	83.7 - 92.5	
MCH (pg)	22.6	21.4 - 23.7	28.8	27.7 - 30.0	31.2	29.9 - 32.4	
MCHC (g/dL)	32.7	30.0 - 35.3	34.7	32.3 - 37.1	35.4	32.9 - 37.8	
PLT (10 ⁹ /L)	63	48 - 77	232	209 - 255	569	524 - 615	
RDW-SD (fL)	46.6	42.4 - 50.8	44.1	40.1 - 48.0	42.9	39.1 - 46.8	
RDW-CV (%)	18.5	17.0 - 20.0	14.6	13.7 - 15.5	13.5	12.7 - 14.3	
MPV (fL)	9.4	8.2 - 10.6	9.8	9.0 - 10.5	9.9	9.2 - 10.6	
WBC (10 ⁹ /L)	3.03	2.67 - 3.40	7.05	6.42 - 7.69	17.05	15.68 - 18.41	
NEUT%	43.8	37.7 - 49.9	48.6	43.8 - 53.5	53.0	47.7 - 58.3	
LYMPH%	37.7	30.9 - 44.4	31.9	27.1 - 36.7	27.1	23.0 - 31.2	
MONO%	9.3	4.3 - 14.3	9.2	5.6 - 12.8	8.8	5.4 - 12.3	
EO%	9.3	5.7 - 12.8	10.2	6.4 - 14.0	11.1	7.1 - 15.1	
BASO%	62.9	56.0 - 69.8	69.1	64.3 - 74.0	74.5	70.8 - 78.3	
NEUT# (10 ⁹ /L)	1.33	1.06 - 1.59	3.43	2.92 - 3.95	9.03	7.85 - 10.20	
LYMPH# (10 ⁹ /L)	1.14	0.88 - 1.41	2.25	1.82 - 2.68	4.62	3.83 - 5.40	
MONO# (10 ⁹ /L)	0.28	0.12 - 0.44	0.65	0.38 - 0.92	1.50	0.90 - 2.10	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.72	0.44 - 1.00	1.90	1.20 - 2.60	
BASO# (10 ⁹ /L)	1.91	1.56 - 2.25	4.88	4.24 - 5.51	12.71	11.44 - 13.98	
NRBC# (10 ⁹ /L)	2.93	2.43 - 3.42	6.85	5.96 - 7.74	17.48	15.38 - 19.58	
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)	68	45 - 91	226	188 - 265	545	464 - 627	
RET# (10 ¹² /L)	0.1389	0.0959 - 0.1820	0.1168	0.0818 - 0.1519	0.0475	0.0342 - 0.0608	
RET%	5.70	4.10 - 7.29	2.67	1.95 - 3.40	0.90	0.58 - 1.21	
IRF (%)	35.6	6.1 - 65.2	30.1	2.4 - 57.8	19.0	1.0 - 37.1	
^a IG (#)	0.31	0.23 - 0.38	0.80	0.63 - 0.97	2.14	1.71 - 2.57	
^a IG (%)	10.14	8.01 - 12.27	11.38	9.22 - 13.54	12.56	10.17 - 14.95	
^b HPC (#)	0.014	0.010 - 0.018	0.036	0.027 - 0.044	0.091	0.068 - 0.114	
^c RET-He (pg)	24.2	20.8 - 27.6	25.2	21.6 - 28.7	27.1	22.8 - 31.5	
^d IPF (%)	21.5	17.4 - 25.6	21.5	17.4 - 25.6	21.6	17.5 - 25.7	

^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.

OPEN



e-CHECK™

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

Expiration Date:		2022-08-29		Quality Control Data Due Date #1: 18-Jul-22		Quality Control Data Due Date #2: 29-Aug-22	
Lot Number:		21590801		21590802		21590803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.44	2.34 - 2.54	4.37	4.24 - 4.50	5.25	5.09 - 5.41	
HGB (g/dL)	5.5	5.3 - 5.7	12.5	12.2 - 12.9	16.4	15.9 - 16.9	
HCT (%)	16.8	15.8 - 17.9	36.3	34.5 - 38.1	46.7	44.4 - 49.1	
MCV (fL)	69.1	64.9 - 73.2	83.0	78.0 - 88.0	89.0	84.6 - 93.5	
MCH (pg)	22.7	21.5 - 23.8	28.7	27.5 - 29.8	31.2	29.9 - 32.4	
MCHC (g/dL)	32.8	30.2 - 35.4	34.5	32.1 - 37.0	35.0	32.6 - 37.5	
PLT (10 ⁹ /L)	63	48 - 77	228	205 - 250	535	492 - 578	
RDW-SD (fL)	46.1	42.0 - 50.3	43.6	39.7 - 47.5	42.9	39.1 - 46.8	
RDW-CV (%)	18.3	16.8 - 19.8	14.5	13.6 - 15.3	13.5	12.7 - 14.3	
MPV (fL)	9.4	8.2 - 10.6	9.8	9.0 - 10.5	9.9	9.2 - 10.6	
WBC (10 ⁹ /L)	2.94	2.59 - 3.29	6.63	6.03 - 7.23	16.71	15.37 - 18.04	
NEUT%	44.3	38.1 - 50.6	48.8	44.0 - 53.7	53.5	48.1 - 58.8	
LYMPH%	37.3	30.6 - 44.0	32.6	27.7 - 37.5	26.8	22.8 - 30.8	
MONO%	9.2	4.2 - 14.2	8.5	5.2 - 11.8	8.6	5.2 - 11.9	
EO%	9.2	5.7 - 12.6	10.1	6.4 - 13.9	11.1	7.1 - 15.1	
BASO%	62.9	56.0 - 69.8	69.8	64.9 - 74.7	74.5	70.8 - 78.3	
NEUT# (10 ⁹ /L)	1.30	1.04 - 1.57	3.24	2.75 - 3.72	8.94	7.78 - 10.10	
LYMPH# (10 ⁹ /L)	1.10	0.84 - 1.35	2.16	1.75 - 2.57	4.48	3.72 - 5.24	
MONO# (10 ⁹ /L)	0.27	0.12 - 0.42	0.56	0.33 - 0.80	1.43	0.86 - 2.00	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.67	0.41 - 0.93	1.86	1.17 - 2.55	
BASO# (10 ⁹ /L)	1.85	1.52 - 2.18	4.63	4.03 - 5.23	12.45	11.21 - 13.70	
NRBC# (10 ⁹ /L)	2.90	2.40 - 3.39	6.57	5.72 - 7.43	17.31	15.23 - 19.38	
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)	68	45 - 92	226	188 - 265	529	450 - 608	
RET# (10 ¹² /L)	0.1362	0.0940 - 0.1784	0.1157	0.0810 - 0.1504	0.0468	0.0337 - 0.0599	
RET%	5.58	4.02 - 7.15	2.65	1.93 - 3.36	0.89	0.58 - 1.20	
IRF (%)	33.8	5.8 - 61.9	30.1	2.4 - 57.8	19.8	1.0 - 38.6	
^a IG (#)	0.30	0.22 - 0.37	0.75	0.60 - 0.91	2.10	1.68 - 2.52	
^a IG (%)	10.14	8.01 - 12.27	11.38	9.22 - 13.54	12.56	10.17 - 14.95	
^b HPC (#)	0.014	0.010 - 0.018	0.036	0.027 - 0.044	0.091	0.068 - 0.114	
^c RET-He (pg)	23.7	20.4 - 27.1	24.7	21.2 - 28.1	26.6	22.3 - 30.9	
^d IPF (%)	21.5	17.4 - 25.6	21.5	17.4 - 25.6	21.6	17.5 - 25.7	

^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:		2022-08-29		Quality Control Data Due Date #1: 18-Jul-22		Quality Control Data Due Date #2: 29-Aug-22	
Lot Number:		21590801		21590802		21590803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.43	2.34 - 2.53	4.38	4.20 - 4.55	5.33	5.12 - 5.54	
HGB (g/dL)	5.4	5.2 - 5.6	12.4	12.0 - 12.8	16.4	15.9 - 16.9	
HCT (%)	17.0	16.0 - 18.0	36.6	34.8 - 38.4	47.5	45.1 - 49.9	
MCV (fL)	69.9	65.7 - 74.0	83.6	79.4 - 87.7	89.2	84.7 - 93.6	
MCH (pg)	22.2	20.6 - 23.7	28.3	26.6 - 30.0	30.7	29.2 - 32.3	
MCHC (g/dL)	31.8	28.9 - 34.6	33.9	31.5 - 36.3	34.5	32.1 - 36.9	
PLT (10 ⁹ /L)	65	48 - 81	232	206 - 257	555	510 - 599	
RDW-SD (fL)	46.7	42.0 - 51.4	44.5	40.1 - 49.0	43.2	38.0 - 48.3	
RDW-CV (%)	18.8	16.9 - 20.7	15.1	13.9 - 16.3	13.9	12.8 - 15.0	
MPV (fL)	9.5	8.3 - 10.8	9.9	9.2 - 10.6	10.2	9.7 - 10.7	
WBC (10 ⁹ /L)	2.94	2.53 - 3.35	7.12	6.41 - 7.83	17.10	15.56 - 18.63	
NEUT%	44.0	37.9 - 50.2	48.1	43.2 - 52.9	52.5	47.8 - 57.2	
LYMPH%	35.4	27.2 - 43.5	30.8	25.6 - 36.1	25.5	22.1 - 28.8	
MONO%	11.1	4.0 - 18.3	11.1	6.2 - 16.0	10.8	6.6 - 15.1	
EO%	9.5	6.0 - 13.0	10.0	6.4 - 13.6	11.2	7.3 - 15.1	
BASO%	64.0	57.6 - 70.4	68.3	64.2 - 72.4	78.2	74.3 - 82.1	
NEUT# (10 ⁹ /L)	1.29	1.04 - 1.55	3.42	2.91 - 3.94	8.97	7.81 - 10.14	
LYMPH# (10 ⁹ /L)	1.04	0.76 - 1.32	2.20	1.76 - 2.63	4.35	3.66 - 5.05	
MONO# (10 ⁹ /L)	0.33	0.11 - 0.54	0.79	0.44 - 1.15	1.85	1.11 - 2.59	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.71	0.45 - 0.98	1.92	1.23 - 2.61	
BASO# (10 ⁹ /L)	1.88	1.54 - 2.22	4.87	4.28 - 5.45	13.37	12.03 - 14.71	
PLT-O (10 ⁹ /L)	62	40 - 83	216	175 - 257	540	453 - 626	
RET# (10 ¹² /L)	0.1268	0.0900 - 0.1635	0.0926	0.0611 - 0.1241	0.0380	0.0228 - 0.0533	
RET%	5.21	3.85 - 6.56	2.12	1.50 - 2.73	0.71	0.42 - 1.01	
IRF (%)	45.6	11.9 - 79.3	38.6	7.3 - 69.8	23.3	2.8 - 43.8	
^a IG (#)	0.34	0.26 - 0.42	0.92	0.73 - 1.10	2.41	1.40 - 3.42	
^a IG (%)	11.68	9.34 - 14.01	12.87	10.55 - 15.19	14.09	8.17 - 20.01	
^c RET-He (pg)	24.0	21.6 - 26.4	24.6	22.1 - 27.0	24.9	21.4 - 28.4	

^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:		2022-08-29		Quality Control Data Due Date #1: 18-Jul-22		Quality Control Data Due Date #2: 29-Aug-22	
Lot Number:		21590801		21590802		21590803	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.43	2.34 - 2.53	4.38	4.20 - 4.55	5.22	5.01 - 5.43	
HGB (g/dL)	5.4	5.2 - 5.6	12.5	12.2 - 12.9	16.2	15.7 - 16.7	
HCT (%)	17.0	16.0 - 18.0	36.6	34.8 - 38.4	47.5	45.1 - 49.9	
MCV (fL)	69.9	65.7 - 74.0	83.6	79.4 - 87.7	91.0	86.4 - 95.5	
MCH (pg)	22.2	20.6 - 23.7	28.6	26.9 - 30.3	31.1	29.5 - 32.6	
MCHC (g/dL)	31.8	28.9 - 34.6	34.2	31.8 - 36.6	34.1	31.8 - 36.5	
PLT (10 ⁹ /L)	65	48 - 82	225	200 - 250	510	469 - 551	
RDW-SD (fL)	46.7	42.0 - 51.4	44.5	40.1 - 49.0	43.2	38.0 - 48.3	
RDW-CV (%)	18.8	16.9 - 20.7	15.1	13.9 - 16.3	13.9	12.8 - 15.0	
MPV (fL)	9.5	8.3 - 10.8	9.9	9.2 - 10.6	10.2	9.7 - 10.7	
WBC (10 ⁹ /L)	2.94	2.53 - 3.35	6.91	6.22 - 7.60	16.58	15.09 - 18.08	
NEUT%	44.2	38.0 - 50.4	48.1	43.3 - 52.9	53.4	48.6 - 58.2	
LYMPH%	35.4	27.2 - 43.5	30.8	25.6 - 36.1	25.2	21.9 - 28.5	
MONO%	11.1	4.0 - 18.3	10.9	6.1 - 15.7	10.4	6.3 - 14.5	
EO%	9.3	5.8 - 12.7	10.2	6.5 - 13.9	11.0	7.1 - 14.8	
BASO%	63.4	57.1 - 69.7	67.7	63.6 - 71.7	77.4	73.6 - 81.3	
NEUT# (10 ⁹ /L)	1.30	1.04 - 1.56	3.32	2.82 - 3.82	8.86	7.71 - 10.01	
LYMPH# (10 ⁹ /L)	1.04	0.76 - 1.32	2.13	1.70 - 2.56	4.18	3.51 - 4.85	
MONO# (10 ⁹ /L)	0.33	0.11 - 0.54	0.75	0.41 - 1.09	1.73	1.04 - 2.42	
EO# (10 ⁹ /L)	0.27	0.17 - 0.38	0.71	0.44 - 0.97	1.82	1.17 - 2.48	
BASO# (10 ⁹ /L)	1.86	1.53 - 2.20	4.67	4.11 - 5.24	12.84	11.56 - 14.12	
PLT-O (10 ⁹ /L)	62	40 - 83	216	175 - 257	524	440 - 607	
RET# (10 ¹² /L)	0.1141	0.0810 - 0.1472	0.0926	0.0611 - 0.1241	0.0373	0.0224 - 0.0522	
RET%	4.69	3.47 - 5.91	2.12	1.50 - 2.73	0.71	0.42 - 1.01	
IRF (%)	45.6	11.9 - 79.3	38.6	7.3 - 69.8	23.3	2.8 - 43.8	
^a IG (#)	0.35	0.27 - 0.43	0.91	0.73 - 1.09	2.38	1.38 - 3.38	
^a IG (%)	11.91	9.53 - 14.29	13.13	10.76 - 15.49	14.37	8.34 - 20.41	
^c RET-He (pg)	24.0	21.6 - 26.4	24.6	22.1 - 27.0	24.9	21.4 - 28.4	

^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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