



e-CHECK™

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

Expiration Date:		2024-10-21		Quality Control Data Due Date #1: 09-Sep-24		Quality Control Data Due Date #2: 21-Oct-24	
Lot Number:		42130801		42130802		42130803	
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	4.38	4.25 - 4.51	5.23	5.08 - 5.39	
HGB (g/dL)	5.3	5.1 - 5.5	11.4	11.1 - 11.7	15.8	15.3 - 16.3	
HCT (%)	16.4	15.4 - 17.4	33.4	31.8 - 35.1	45.4	43.1 - 47.6	
MCV (fL)	71.3	67.0 - 75.6	76.4	71.8 - 81.0	86.6	82.3 - 91.0	
MCH (pg)	23.2	22.0 - 24.3	26.0	25.0 - 27.1	30.2	29.0 - 31.4	
MCHC (g/dL)	32.5	29.9 - 35.1	34.1	31.7 - 36.5	34.9	32.4 - 37.3	
PLT (10 ⁹ /L)	56	43 - 69	224	202 - 246	539	495 - 582	
RDW-SD (fL)	44.5	40.5 - 48.5	45.1	41.0 - 49.1	42.4	38.6 - 46.2	
RDW-CV (%)	17.2	15.8 - 18.5	16.4	15.4 - 17.3	13.6	12.8 - 14.4	
MPV (fL)	9.1	7.9 - 10.3	9.3	8.6 - 10.1	9.5	8.8 - 10.1	
WBC (10 ⁹ /L)	3.07	2.70 - 3.43	6.90	6.28 - 7.52	16.36	15.05 - 17.67	
NEUT%	44.5	38.2 - 50.7	47.9	43.1 - 52.7	53.2	47.9 - 58.5	
LYMPH%	36.9	30.3 - 43.6	31.7	27.0 - 36.5	27.3	23.2 - 31.4	
MONO%	9.1	4.2 - 14.0	9.9	6.1 - 13.8	8.4	5.1 - 11.7	
EO%	9.5	5.9 - 13.1	10.4	6.6 - 14.3	11.1	7.1 - 15.0	
BASO%	63.0	56.1 - 69.9	69.5	64.6 - 74.3	73.7	70.0 - 77.4	
NEUT# (10 ⁹ /L)	1.36	1.09 - 1.64	3.30	2.81 - 3.80	8.70	7.57 - 9.84	
LYMPH# (10 ⁹ /L)	1.13	0.87 - 1.39	2.19	1.77 - 2.60	4.47	3.71 - 5.23	
MONO# (10 ⁹ /L)	0.28	0.12 - 0.44	0.68	0.40 - 0.97	1.38	0.83 - 1.93	
EO# (10 ⁹ /L)	0.29	0.17 - 0.41	0.72	0.44 - 1.00	1.81	1.14 - 2.48	
BASO# (10 ⁹ /L)	1.93	1.58 - 2.28	4.79	4.17 - 5.42	12.06	10.86 - 13.27	
NRBC# (10 ⁹ /L)	2.95	2.45 - 3.45	6.61	5.75 - 7.47	16.85	14.83 - 18.87	
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)	58	38 - 77	211	175 - 247	518	441 - 596	
RET# (10 ¹² /L)	0.1431	0.0987 - 0.1875	0.1132	0.0792 - 0.1472	0.0576	0.0415 - 0.0738	
RET%	6.23	4.48 - 7.97	2.59	1.89 - 3.28	1.10	0.72 - 1.49	
IRF (%)	33.2	5.7 - 60.8	26.1	2.1 - 50.1	20.1	1.0 - 39.3	
^a IG (#)	0.32	0.24 - 0.41	0.78	0.61 - 0.94	2.05	1.64 - 2.46	
^a IG (%)	10.59	8.37 - 12.81	11.27	9.13 - 13.41	12.55	10.16 - 14.93	
^b HPC (#)	0.012	0.009 - 0.016	0.031	0.023 - 0.039	0.084	0.063 - 0.105	
^c RET-He (pg)	23.8	20.5 - 27.1	24.5	21.1 - 27.9	26.0	21.8 - 30.2	
^d IPF (%)	21.5	17.4 - 25.6	21.6	17.5 - 25.7	21.9	17.7 - 26.1	

^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:		2024-10-21		Quality Control Data Due Date #1: 09-Sep-24		Quality Control Data Due Date #2: 21-Oct-24	
Lot Number:		42130801		42130802		42130803	
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	4.38	4.25 - 4.51	5.18	5.03 - 5.34	
HGB (g/dL)	5.4	5.1 - 5.6	11.3	11.0 - 11.7	15.7	15.2 - 16.1	
HCT (%)	16.4	15.4 - 17.4	33.4	31.8 - 35.1	45.4	43.1 - 47.6	
MCV (fL)	71.3	67.0 - 75.6	76.4	71.8 - 81.0	87.5	83.1 - 91.9	
MCH (pg)	23.3	22.1 - 24.5	25.9	24.9 - 26.9	30.2	29.0 - 31.4	
MCHC (g/dL)	32.7	30.0 - 35.3	33.9	31.5 - 36.3	34.5	32.1 - 36.9	
PLT (10 ⁹ /L)	56	43 - 69	219	197 - 241	506	466 - 547	
RDW-SD (fL)	44.0	40.1 - 48.0	44.6	40.6 - 48.6	42.4	38.6 - 46.2	
RDW-CV (%)	17.0	15.6 - 18.3	16.2	15.2 - 17.2	13.6	12.8 - 14.4	
MPV (fL)	9.1	7.9 - 10.3	9.3	8.6 - 10.1	9.5	8.8 - 10.1	
WBC (10 ⁹ /L)	2.97	2.62 - 3.33	6.48	5.90 - 7.07	16.04	14.75 - 17.32	
NEUT%	45.0	38.7 - 51.3	48.2	43.3 - 53.0	53.7	48.3 - 59.1	
LYMPH%	36.5	30.0 - 43.1	32.4	27.5 - 37.2	27.0	23.0 - 31.1	
MONO%	9.0	4.2 - 13.9	9.1	5.6 - 12.7	8.2	5.0 - 11.4	
EO%	9.4	5.8 - 13.0	10.3	6.5 - 14.2	11.1	7.1 - 15.0	
BASO%	63.0	56.1 - 69.9	70.2	65.3 - 75.1	73.7	70.0 - 77.4	
NEUT# (10 ⁹ /L)	1.34	1.07 - 1.61	3.12	2.65 - 3.59	8.61	7.49 - 9.73	
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.34	2.10	1.70 - 2.50	4.34	3.60 - 5.07	
MONO# (10 ⁹ /L)	0.27	0.12 - 0.42	0.59	0.34 - 0.84	1.31	0.79 - 1.84	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.67	0.41 - 0.93	1.77	1.12 - 2.43	
BASO# (10 ⁹ /L)	1.87	1.54 - 2.21	4.55	3.96 - 5.14	11.82	10.64 - 13.00	
NRBC# (10 ⁹ /L)	2.92	2.43 - 3.42	6.35	5.52 - 7.18	16.68	14.68 - 18.68	
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)	58	38 - 78	211	175 - 247	503	427 - 578	
RET# (10 ¹² /L)	0.1402	0.0968 - 0.1837	0.1121	0.0785 - 0.1457	0.0568	0.0409 - 0.0727	
RET%	6.10	4.39 - 7.81	2.56	1.87 - 3.25	1.10	0.71 - 1.48	
IRF (%)	31.6	5.4 - 57.8	26.1	2.1 - 50.1	20.9	1.0 - 40.8	
^a IG (#)	0.31	0.24 - 0.39	0.73	0.58 - 0.88	2.01	1.61 - 2.41	
^a IG (%)	10.59	8.37 - 12.81	11.27	9.13 - 13.41	12.55	10.16 - 14.93	
^b HPC (#)	0.012	0.009 - 0.016	0.031	0.023 - 0.039	0.084	0.063 - 0.105	
^c RET-He (pg)	23.3	20.0 - 26.6	24.0	20.6 - 27.4	25.5	21.4 - 29.6	
^d IPF (%)	21.5	17.4 - 25.6	21.6	17.5 - 25.7	21.9	17.7 - 26.1	

^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.

CLOSED



e-CHECK™

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

Expiration Date:		2024-10-21		Quality Control Data Due Date #1: 09-Sep-24		Quality Control Data Due Date #2: 21-Oct-24	
Lot Number:		42130801		42130802		42130803	
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	4.38	4.20 - 4.55	5.24	5.03 - 5.45	
HGB (g/dL)	5.3	5.1 - 5.5	11.3	11.0 - 11.6	15.7	15.2 - 16.2	
HCT (%)	16.7	15.7 - 17.7	34.1	32.4 - 35.8	46.6	44.2 - 48.9	
MCV (fL)	72.8	68.5 - 77.2	77.9	74.0 - 81.8	88.9	84.5 - 93.3	
MCH (pg)	23.1	21.5 - 24.8	25.8	24.3 - 27.4	30.0	28.5 - 31.5	
MCHC (g/dL)	31.8	28.9 - 34.6	33.1	30.8 - 35.5	33.7	31.4 - 36.1	
PLT (10 ⁹ /L)	57	42 - 72	219	195 - 243	525	483 - 567	
RDW-SD (fL)	44.9	40.4 - 49.4	45.7	41.1 - 50.2	43.1	37.9 - 48.2	
RDW-CV (%)	17.2	15.4 - 18.9	16.8	15.4 - 18.1	13.9	12.8 - 15.0	
MPV (fL)	9.2	8.0 - 10.4	9.6	9.0 - 10.3	9.9	9.4 - 10.3	
WBC (10 ⁹ /L)	2.99	2.57 - 3.41	6.85	6.17 - 7.54	16.58	15.09 - 18.07	
NEUT%	44.8	38.5 - 51.0	48.2	43.4 - 53.1	52.0	47.3 - 56.7	
LYMPH%	35.2	27.1 - 43.3	30.6	25.4 - 35.9	26.4	22.9 - 29.8	
MONO%	10.6	3.8 - 17.4	11.4	6.4 - 16.4	9.8	6.0 - 13.7	
EO%	9.4	5.9 - 12.9	9.7	6.2 - 13.2	11.8	7.7 - 15.9	
BASO%	64.7	58.2 - 71.1	69.0	64.8 - 73.1	77.3	73.4 - 81.1	
NEUT# (10 ⁹ /L)	1.34	1.07 - 1.61	3.31	2.81 - 3.80	8.62	7.50 - 9.74	
LYMPH# (10 ⁹ /L)	1.05	0.77 - 1.34	2.10	1.68 - 2.52	4.37	3.67 - 5.07	
MONO# (10 ⁹ /L)	0.32	0.11 - 0.53	0.78	0.43 - 1.13	1.63	0.98 - 2.28	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.66	0.42 - 0.91	1.96	1.25 - 2.66	
BASO# (10 ⁹ /L)	1.93	1.59 - 2.28	4.73	4.16 - 5.29	12.81	11.53 - 14.10	
PLT-O (10 ⁹ /L)	53	35 - 72	198	161 - 236	506	425 - 587	
RET# (10 ¹² /L)	0.1273	0.0904 - 0.1643	0.0901	0.0595 - 0.1208	0.0453	0.0272 - 0.0634	
RET%	5.56	4.11 - 7.00	2.06	1.46 - 2.66	0.87	0.51 - 1.22	
IRF (%)	49.3	12.8 - 85.8	39.5	7.5 - 71.5	29.5	3.5 - 55.5	
^a IG (#)	0.35	0.27 - 0.43	0.89	0.71 - 1.07	2.30	1.34 - 3.27	
^a IG (%)	11.81	9.44 - 14.17	12.95	10.62 - 15.28	13.90	8.06 - 19.73	
^b RET-He (pg) ^b	23.4	21.1 - 25.8	23.6	21.3 - 26.0	24.2	20.8 - 27.6	

^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:		2024-10-21		Quality Control Data Due Date #1: 09-Sep-24		Quality Control Data Due Date #2: 21-Oct-24	
Lot Number:		42130801		42130802		42130803	
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	4.38	4.20 - 4.55	5.13	4.93 - 5.34	
HGB (g/dL)	5.3	5.1 - 5.5	11.4	11.1 - 11.7	15.6	15.1 - 16.0	
HCT (%)	16.7	15.7 - 17.7	34.1	32.4 - 35.8	46.6	44.2 - 48.9	
MCV (fL)	72.8	68.5 - 77.2	77.9	74.0 - 81.8	90.7	86.2 - 95.2	
MCH (pg)	23.1	21.5 - 24.8	26.1	24.5 - 27.6	30.3	28.8 - 31.8	
MCHC (g/dL)	31.8	28.9 - 34.6	33.5	31.1 - 35.8	33.4	31.1 - 35.7	
PLT (10 ⁹ /L)	58	43 - 73	212	189 - 236	483	444 - 522	
RDW-SD (fL)	44.9	40.4 - 49.4	45.7	41.1 - 50.2	43.1	37.9 - 48.2	
RDW-CV (%)	17.2	15.4 - 18.9	16.8	15.4 - 18.1	13.9	12.8 - 15.0	
MPV (fL)	9.2	8.0 - 10.4	9.6	9.0 - 10.3	9.9	9.4 - 10.3	
WBC (10 ⁹ /L)	2.99	2.57 - 3.41	6.65	5.98 - 7.31	16.08	14.64 - 17.53	
NEUT%	45.0	38.7 - 51.3	48.3	43.4 - 53.1	52.9	48.1 - 57.7	
LYMPH%	35.2	27.1 - 43.3	30.6	25.4 - 35.9	26.1	22.7 - 29.5	
MONO%	10.6	3.8 - 17.4	11.2	6.3 - 16.1	9.4	5.8 - 13.1	
EO%	9.2	5.8 - 12.6	9.9	6.3 - 13.5	11.6	7.5 - 15.6	
BASO%	64.0	57.6 - 70.4	68.3	64.2 - 72.4	76.5	72.7 - 80.3	
NEUT# (10 ⁹ /L)	1.34	1.08 - 1.61	3.21	2.73 - 3.69	8.51	7.40 - 9.61	
LYMPH# (10 ⁹ /L)	1.05	0.77 - 1.34	2.04	1.63 - 2.45	4.20	3.53 - 4.87	
MONO# (10 ⁹ /L)	0.32	0.11 - 0.53	0.74	0.41 - 1.08	1.52	0.91 - 2.12	
EO# (10 ⁹ /L)	0.28	0.17 - 0.38	0.66	0.41 - 0.90	1.86	1.19 - 2.53	
BASO# (10 ⁹ /L)	1.91	1.57 - 2.26	4.54	3.99 - 5.08	12.31	11.07 - 13.54	
PLT-O (10 ⁹ /L)	53	35 - 72	198	161 - 236	491	412 - 569	
RET# (10 ¹² /L)	0.1146	0.0814 - 0.1478	0.0901	0.0595 - 0.1208	0.0444	0.0266 - 0.0622	
RET%	5.00	3.70 - 6.30	2.06	1.46 - 2.66	0.87	0.51 - 1.22	
IRF (%)	49.3	12.8 - 85.8	39.5	7.5 - 71.5	29.5	3.5 - 55.5	
^a IG (#)	0.36	0.28 - 0.44	0.88	0.70 - 1.05	2.28	1.32 - 3.24	
^a IG (%)	12.04	9.63 - 14.45	13.21	10.83 - 15.59	14.17	8.22 - 20.13	
^b RET-He (pg) ^b	23.4	21.1 - 25.8	23.6	21.3 - 26.0	24.2	20.8 - 27.6	

^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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