



e-CHECK™

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

Expiration Date:		2024-08-26		Quality Control Data Due Date #1: 15-Jul-24		Quality Control Data Due Date #2: 26-Aug-24	
Lot Number:		41570801		41570802		41570803	
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	4.34	4.21 - 4.47	5.25	5.09 - 5.41	
HGB (g/dL)	5.7	5.5 - 5.9	11.8	11.4 - 12.1	15.9	15.4 - 16.3	
HCT (%)	17.1	16.1 - 18.1	34.6	32.8 - 36.3	45.5	43.3 - 47.8	
MCV (fL)	74.2	69.7 - 78.6	79.6	74.8 - 84.4	86.7	82.4 - 91.1	
MCH (pg)	24.8	23.5 - 26.0	27.1	26.0 - 28.2	30.2	29.0 - 31.4	
MCHC (g/dL)	33.4	30.7 - 36.0	34.1	31.7 - 36.4	34.8	32.4 - 37.2	
PLT (10 ⁹ /L)	55	42 - 67	223	200 - 245	529	487 - 572	
RDW-SD (fL)	45.7	41.6 - 49.8	46.4	42.2 - 50.5	43.0	39.1 - 46.9	
RDW-CV (%)	16.8	15.5 - 18.2	15.9	15.0 - 16.9	13.9	13.1 - 14.7	
MPV (fL)	9.1	7.9 - 10.3	9.4	8.7 - 10.2	9.5	8.9 - 10.2	
WBC (10 ⁹ /L)	2.87	2.53 - 3.22	6.69	6.09 - 7.30	16.22	14.92 - 17.52	
NEUT%	44.3	38.1 - 50.5	48.4	43.6 - 53.2	52.8	47.6 - 58.1	
LYMPH%	37.3	30.6 - 44.0	32.2	27.4 - 37.0	26.9	22.9 - 30.9	
MONO%	9.1	4.2 - 14.1	8.9	5.4 - 12.3	8.9	5.4 - 12.4	
EO%	9.3	5.8 - 12.8	10.6	6.7 - 14.5	11.3	7.3 - 15.4	
BASO%	63.4	56.4 - 70.4	68.9	64.0 - 73.7	74.1	70.4 - 77.8	
NEUT# (10 ⁹ /L)	1.27	1.02 - 1.53	3.24	2.75 - 3.73	8.57	7.46 - 9.69	
LYMPH# (10 ⁹ /L)	1.07	0.83 - 1.32	2.15	1.75 - 2.56	4.36	3.62 - 5.11	
MONO# (10 ⁹ /L)	0.26	0.12 - 0.41	0.59	0.34 - 0.84	1.45	0.87 - 2.03	
EO# (10 ⁹ /L)	0.27	0.16 - 0.37	0.71	0.43 - 0.98	1.84	1.16 - 2.52	
BASO# (10 ⁹ /L)	1.82	1.49 - 2.15	4.61	4.01 - 5.21	12.02	10.82 - 13.22	
NRBC# (10 ⁹ /L)	2.77	2.30 - 3.24	6.47	5.63 - 7.31	16.69	14.68 - 18.69	
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)	57	38 - 77	216	179 - 252	521	443 - 599	
RET# (10 ¹² /L)	0.1451	0.1001 - 0.1901	0.1171	0.0820 - 0.1522	0.0580	0.0418 - 0.0742	
RET%	6.30	4.54 - 8.07	2.70	1.97 - 3.42	1.10	0.72 - 1.49	
IRF (%)	36.0	6.1 - 65.8	32.0	2.6 - 61.5	23.1	1.2 - 45.0	
^a IG (#)	0.30	0.22 - 0.37	0.76	0.60 - 0.92	1.99	1.59 - 2.39	
^a IG (%)	10.28	8.12 - 12.43	11.33	9.17 - 13.48	12.29	9.95 - 14.63	
^b HPC (#)	0.010	0.007 - 0.013	0.029	0.022 - 0.037	0.079	0.059 - 0.099	
^c RET-He (pg)	23.7	20.4 - 27.0	24.3	20.9 - 27.7	26.0	21.9 - 30.2	
^d IPF (%)	21.4	17.4 - 25.5	21.7	17.6 - 25.8	21.3	17.2 - 25.3	

^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:		2024-08-26		Quality Control Data Due Date #1: 15-Jul-24		Quality Control Data Due Date #2: 26-Aug-24	
Lot Number:		41570801		41570802		41570803	
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	4.34	4.21 - 4.47	5.20	5.04 - 5.35	
HGB (g/dL)	5.7	5.5 - 6.0	11.7	11.4 - 12.1	15.7	15.2 - 16.2	
HCT (%)	17.1	16.1 - 18.1	34.6	32.8 - 36.3	45.5	43.3 - 47.8	
MCV (fL)	74.2	69.7 - 78.6	79.6	74.8 - 84.4	87.6	83.2 - 92.0	
MCH (pg)	24.9	23.6 - 26.1	27.0	25.9 - 28.1	30.2	29.0 - 31.4	
MCHC (g/dL)	33.5	30.9 - 36.2	33.9	31.5 - 36.3	34.5	32.0 - 36.9	
PLT (10 ⁹ /L)	55	42 - 67	218	196 - 240	498	458 - 537	
RDW-SD (fL)	45.2	41.2 - 49.3	45.9	41.8 - 50.0	43.0	39.1 - 46.9	
RDW-CV (%)	16.7	15.3 - 18.0	15.8	14.8 - 16.7	13.9	13.1 - 14.7	
MPV (fL)	9.1	7.9 - 10.3	9.4	8.7 - 10.2	9.5	8.9 - 10.2	
WBC (10 ⁹ /L)	2.79	2.45 - 3.12	6.29	5.73 - 6.86	15.90	14.63 - 17.17	
NEUT%	44.8	38.6 - 51.1	48.6	43.7 - 53.4	53.4	48.0 - 58.7	
LYMPH%	36.9	30.3 - 43.6	32.8	27.9 - 37.8	26.6	22.6 - 30.6	
MONO%	9.1	4.2 - 13.9	8.1	5.0 - 11.3	8.7	5.3 - 12.0	
EO%	9.2	5.7 - 12.7	10.5	6.6 - 14.3	11.3	7.3 - 15.4	
BASO%	63.4	56.4 - 70.4	69.5	64.7 - 74.4	74.1	70.4 - 77.8	
NEUT# (10 ⁹ /L)	1.25	1.00 - 1.50	3.06	2.60 - 3.51	8.49	7.38 - 9.59	
LYMPH# (10 ⁹ /L)	1.03	0.79 - 1.27	2.07	1.67 - 2.46	4.23	3.51 - 4.95	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.51	0.30 - 0.73	1.38	0.83 - 1.93	
EO# (10 ⁹ /L)	0.26	0.15 - 0.36	0.66	0.40 - 0.92	1.80	1.14 - 2.47	
BASO# (10 ⁹ /L)	1.77	1.45 - 2.09	4.38	3.81 - 4.95	11.78	10.60 - 12.96	
NRBC# (10 ⁹ /L)	2.74	2.28 - 3.21	6.21	5.40 - 7.02	16.52	14.54 - 18.50	
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	216	179 - 252	505	430 - 581	
RET# (10 ¹² /L)	0.1422	0.0981 - 0.1863	0.1159	0.0811 - 0.1507	0.0571	0.0411 - 0.0731	
RET%	6.17	4.45 - 7.90	2.67	1.95 - 3.39	1.10	0.71 - 1.48	
IRF (%)	34.2	5.8 - 62.5	32.0	2.6 - 61.5	24.0	1.2 - 46.8	
^a IG (#)	0.29	0.21 - 0.36	0.71	0.56 - 0.86	1.95	1.56 - 2.34	
^a IG (%)	10.28	8.12 - 12.43	11.33	9.17 - 13.48	12.29	9.95 - 14.63	
^b HPC (#)	0.010	0.007 - 0.013	0.029	0.022 - 0.037	0.079	0.059 - 0.099	
^c RET-He (pg)	23.2	20.0 - 26.5	23.8	20.5 - 27.1	25.5	21.4 - 29.6	
^d IPF (%)	21.4	17.4 - 25.5	21.7	17.6 - 25.8	21.3	17.2 - 25.3	

^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.



e-CHECK™

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

Expiration Date:		2024-08-26		Quality Control Data Due Date #1: 15-Jul-24		Quality Control Data Due Date #2: 26-Aug-24	
Lot Number:		41570801		41570802		41570803	
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	4.34	4.17 - 4.52	5.27	5.06 - 5.48	
HGB (g/dL)	5.6	5.4 - 5.9	11.8	11.4 - 12.1	15.9	15.4 - 16.4	
HCT (%)	17.4	16.4 - 18.4	35.1	33.4 - 36.9	46.8	44.5 - 49.2	
MCV (fL)	75.9	71.4 - 80.5	80.9	76.9 - 85.0	88.9	84.4 - 93.3	
MCH (pg)	24.6	22.8 - 26.3	27.2	25.5 - 28.8	30.2	28.7 - 31.7	
MCHC (g/dL)	32.4	29.4 - 35.3	33.6	31.2 - 35.9	34.0	31.6 - 36.4	
PLT (10 ⁹ /L)	58	43 - 73	219	195 - 243	515	474 - 556	
RDW-SD (fL)	46.0	41.4 - 50.6	46.8	42.1 - 51.5	43.9	38.6 - 49.2	
RDW-CV (%)	16.9	15.2 - 18.6	16.3	15.0 - 17.6	14.2	13.1 - 15.4	
MPV (fL)	9.3	8.1 - 10.5	9.7	9.0 - 10.4	9.9	9.4 - 10.4	
WBC (10 ⁹ /L)	2.80	2.41 - 3.19	6.75	6.07 - 7.42	16.33	14.86 - 17.79	
NEUT%	44.2	38.0 - 50.4	48.0	43.2 - 52.8	51.8	47.1 - 56.5	
LYMPH%	35.3	27.2 - 43.4	31.2	25.9 - 36.5	26.1	22.7 - 29.5	
MONO%	11.0	3.9 - 18.0	11.0	6.2 - 15.9	10.4	6.4 - 14.5	
EO%	9.5	6.0 - 13.1	9.7	6.2 - 13.3	11.6	7.6 - 15.7	
BASO%	64.6	58.2 - 71.1	68.1	64.1 - 72.2	77.6	73.8 - 81.5	
NEUT# (10 ⁹ /L)	1.24	0.99 - 1.48	3.24	2.75 - 3.72	8.46	7.36 - 9.55	
LYMPH# (10 ⁹ /L)	0.99	0.72 - 1.25	2.11	1.69 - 2.53	4.27	3.59 - 4.95	
MONO# (10 ⁹ /L)	0.31	0.10 - 0.51	0.74	0.41 - 1.08	1.70	1.02 - 2.39	
EO# (10 ⁹ /L)	0.27	0.16 - 0.37	0.66	0.41 - 0.90	1.90	1.21 - 2.58	
BASO# (10 ⁹ /L)	1.81	1.48 - 2.13	4.60	4.05 - 5.15	12.67	11.41 - 13.94	
PLT-O (10 ⁹ /L)	51	33 - 69	208	169 - 248	516	434 - 599	
RET# (10 ¹² /L)	0.1251	0.0888 - 0.1614	0.0913	0.0603 - 0.1224	0.0437	0.0262 - 0.0612	
RET%	5.46	4.04 - 6.88	2.10	1.49 - 2.71	0.83	0.49 - 1.17	
IRF (%)	51.3	13.3 - 89.3	45.8	8.7 - 82.8	33.3	4.0 - 62.6	
^a IG (#)	0.34	0.26 - 0.42	0.86	0.69 - 1.03	2.27	1.32 - 3.23	
^a IG (%)	12.07	9.65 - 14.48	12.77	10.47 - 15.07	13.92	8.07 - 19.76	
^b RET-He (pg) ^b	23.5	21.1 - 25.8	23.7	21.4 - 26.1	24.6	21.2 - 28.1	

^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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e-CHECK™

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

Expiration Date:		2024-08-26		Quality Control Data Due Date #1: 15-Jul-24		Quality Control Data Due Date #2: 26-Aug-24	
Lot Number:		41570801		41570802		41570803	
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	4.34	4.17 - 4.52	5.16	4.96 - 5.37	
HGB (g/dL)	5.6	5.4 - 5.9	11.9	11.6 - 12.3	15.8	15.3 - 16.2	
HCT (%)	17.4	16.4 - 18.4	35.1	33.4 - 36.9	46.8	44.5 - 49.2	
MCV (fL)	75.9	71.4 - 80.5	80.9	76.9 - 85.0	90.7	86.2 - 95.2	
MCH (pg)	24.6	22.8 - 26.3	27.4	25.8 - 29.1	30.5	29.0 - 32.0	
MCHC (g/dL)	32.4	29.4 - 35.3	33.9	31.5 - 36.3	33.7	31.3 - 36.0	
PLT (10 ⁹ /L)	58	43 - 73	212	189 - 236	474	436 - 512	
RDW-SD (fL)	46.0	41.4 - 50.6	46.8	42.1 - 51.5	43.9	38.6 - 49.2	
RDW-CV (%)	16.9	15.2 - 18.6	16.3	15.0 - 17.6	14.2	13.1 - 15.4	
MPV (fL)	9.3	8.1 - 10.5	9.7	9.0 - 10.4	9.9	9.4 - 10.4	
WBC (10 ⁹ /L)	2.80	2.41 - 3.19	6.55	5.89 - 7.20	15.84	14.41 - 17.26	
NEUT%	44.4	38.2 - 50.6	48.0	43.2 - 52.8	52.7	48.0 - 57.4	
LYMPH%	35.3	27.2 - 43.4	31.2	25.9 - 36.5	25.9	22.5 - 29.3	
MONO%	11.0	3.9 - 18.0	10.8	6.1 - 15.6	10.0	6.1 - 13.9	
EO%	9.4	5.9 - 12.8	9.9	6.4 - 13.5	11.4	7.4 - 15.4	
BASO%	64.0	57.6 - 70.4	67.5	63.4 - 71.5	76.9	73.0 - 80.7	
NEUT# (10 ⁹ /L)	1.24	0.99 - 1.49	3.14	2.67 - 3.61	8.35	7.26 - 9.43	
LYMPH# (10 ⁹ /L)	0.99	0.72 - 1.25	2.04	1.64 - 2.45	4.10	3.44 - 4.76	
MONO# (10 ⁹ /L)	0.31	0.10 - 0.51	0.71	0.39 - 1.03	1.59	0.95 - 2.22	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.65	0.41 - 0.89	1.80	1.15 - 2.45	
BASO# (10 ⁹ /L)	1.79	1.47 - 2.11	4.42	3.89 - 4.95	12.17	10.95 - 13.39	
PLT-O (10 ⁹ /L)	51	33 - 69	208	169 - 248	501	421 - 581	
RET# (10 ¹² /L)	0.1126	0.0800 - 0.1453	0.0913	0.0603 - 0.1224	0.0428	0.0257 - 0.0600	
RET%	4.91	3.64 - 6.19	2.10	1.49 - 2.71	0.83	0.49 - 1.17	
IRF (%)	51.3	13.3 - 89.3	45.8	8.7 - 82.8	33.3	4.0 - 62.6	
^a IG (#)	0.34	0.27 - 0.42	0.85	0.68 - 1.02	2.25	1.30 - 3.19	
^a IG (%)	12.31	9.85 - 14.77	13.03	10.68 - 15.37	14.19	8.23 - 20.15	
^b RET-He (pg) ^b	23.5	21.1 - 25.8	23.7	21.4 - 26.1	24.6	21.2 - 28.1	

^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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