



e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XT-4000i™, XT-2000i™ and XT-1800i™ ANALYZERS
OPEN MODE ASSAY

Expiration Date:		2025-01-13		Quality Control Data Due Date #1: 02-Dec-24		Quality Control Data Due Date #2: 13-Jan-25	
Lot Number:		42970810		42970811		42970812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.37	2.28 - 2.47	4.37	4.20 - 4.55	5.31	5.10 - 5.53	
HGB (g/dL)	5.5	5.3 - 5.7	12.1	11.8 - 12.5	16.2	15.7 - 16.7	
HCT (%)	17.3	16.2 - 18.3	36.4	34.6 - 38.2	47.2	44.8 - 49.6	
MCV (fL)	72.8	68.5 - 77.2	83.3	79.1 - 87.4	88.9	84.4 - 93.3	
MCH (pg)	23.2	21.6 - 24.9	27.8	26.1 - 29.4	30.5	28.9 - 32.0	
MCHC (g/dL)	31.9	29.0 - 34.8	33.3	31.0 - 35.7	34.3	31.9 - 36.7	
PLT (10 ⁹ /L)	56	41 - 71	207	184 - 230	465	428 - 502	
RDW-SD (fL)	48.6	43.8 - 53.5	46.9	42.2 - 51.6	43.9	38.6 - 49.1	
RDW-CV (%)	18.6	16.7 - 20.4	15.8	14.6 - 17.1	14.2	13.0 - 15.3	
MPV (fL)	9.5	8.2 - 10.7	9.8	9.1 - 10.5	10.1	9.6 - 10.6	
WBC (10 ⁹ /L)	3.00	2.58 - 3.42	7.65	6.88 - 8.41	18.66	16.98 - 20.34	
WBC-D (10 ⁹ /L)	2.87	2.50 - 3.24	6.90	6.14 - 7.66	17.50	15.75 - 19.25	
NEUT%	44.7	38.5 - 51.0	49.5	44.5 - 54.4	53.4	48.6 - 58.3	
LYMPH%	33.7	25.9 - 41.4	29.7	24.6 - 34.7	24.6	21.4 - 27.8	
MONO%	12.1	4.3 - 19.8	10.3	5.8 - 14.8	11.3	6.9 - 15.7	
EO%	9.5	6.0 - 13.1	10.5	6.7 - 14.3	10.7	7.0 - 14.5	
BASO%	63.4	57.1 - 69.8	67.0	63.0 - 71.0	75.7	72.6 - 78.7	
NEUT# (10 ⁹ /L)	1.34	1.07 - 1.61	3.78	3.22 - 4.35	9.97	8.67 - 11.27	
LYMPH# (10 ⁹ /L)	1.01	0.74 - 1.29	2.27	1.82 - 2.72	4.58	3.85 - 5.32	
MONO# (10 ⁹ /L)	0.36	0.12 - 0.60	0.79	0.43 - 1.14	2.10	1.26 - 2.95	
EO# (10 ⁹ /L)	0.29	0.17 - 0.40	0.81	0.51 - 1.10	2.00	1.28 - 2.72	
BASO# (10 ⁹ /L)	1.91	1.56 - 2.25	5.12	4.51 - 5.74	14.12	12.71 - 15.53	
PLT-O (10 ⁹ /L)	48	31 - 64	187	152 - 223	449	377 - 521	
RET# (10 ¹² /L)	0.1225	0.0869 - 0.1580	0.0853	0.0563 - 0.1143	0.0402	0.0241 - 0.0562	
RET%	5.16	3.82 - 6.51	1.95	1.39 - 2.52	0.76	0.45 - 1.07	
IRF (%)	36.0	9.4 - 62.6	27.9	5.3 - 50.6	17.4	2.1 - 32.7	
IG (#)	0.36	0.28 - 0.44	1.02	0.82 - 1.22	2.67	1.55 - 3.80	
IG (%)	12.0	9.6 - 14.4	13.3	10.9 - 15.7	14.3	8.3 - 20.4	
RET-He (pg)	24.3	21.9 - 26.8	24.7	22.2 - 27.2	25.3	21.8 - 28.8	

*Not all parameters are available on all analyzer models

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HEMATOLOGY CONTROL FOR SYSMEX XT-4000i™, XT-2000i™ and XT-1800i™ ANALYZERS
CLOSED MODE ASSAY

Expiration Date:		2025-01-13		Quality Control Data Due Date #1: 02-Dec-24		Quality Control Data Due Date #2: 13-Jan-25	
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PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.37	2.28 - 2.47	4.37	4.20 - 4.55	5.26	5.05 - 5.47	
HGB (g/dL)	5.5	5.3 - 5.7	12.4	12.0 - 12.7	16.2	15.7 - 16.7	
HCT (%)	17.3	16.2 - 18.3	36.4	34.6 - 38.2	47.2	44.8 - 49.6	
MCV (fL)	72.8	68.5 - 77.2	83.3	79.1 - 87.4	89.8	85.3 - 94.2	
MCH (pg)	23.2	21.6 - 24.9	28.3	26.6 - 30.0	30.8	29.2 - 32.3	
MCHC (g/dL)	31.9	29.0 - 34.8	34.0	31.6 - 36.4	34.3	31.9 - 36.7	
PLT (10 ⁹ /L)	56	41 - 71	199	177 - 221	428	394 - 462	
RDW-SD (fL)	48.6	43.8 - 53.5	46.9	42.2 - 51.6	43.9	38.6 - 49.1	
RDW-CV (%)	18.6	16.7 - 20.4	15.8	14.6 - 17.1	14.2	13.0 - 15.3	
MPV (fL)	9.5	8.2 - 10.7	9.8	9.1 - 10.5	10.1	9.6 - 10.6	
WBC (10 ⁹ /L)	3.00	2.58 - 3.42	7.42	6.67 - 8.16	18.10	16.47 - 19.73	
WBC-D (10 ⁹ /L)	2.90	2.52 - 3.27	7.10	6.32 - 7.89	17.67	15.91 - 19.44	
NEUT%	45.0	38.7 - 51.3	49.6	44.6 - 54.5	53.1	48.3 - 57.9	
LYMPH%	33.7	25.9 - 41.4	30.0	24.9 - 35.1	25.2	21.9 - 28.5	
MONO%	12.1	4.3 - 19.8	9.9	5.5 - 14.2	10.8	6.6 - 15.1	
EO%	9.2	5.8 - 12.7	10.5	6.7 - 14.3	10.9	7.1 - 14.7	
BASO%	63.4	57.1 - 69.8	66.3	62.4 - 70.3	76.4	73.4 - 79.5	
NEUT# (10 ⁹ /L)	1.35	1.08 - 1.62	3.68	3.13 - 4.23	9.61	8.36 - 10.86	
LYMPH# (10 ⁹ /L)	1.01	0.74 - 1.29	2.22	1.78 - 2.67	4.56	3.83 - 5.29	
MONO# (10 ⁹ /L)	0.36	0.12 - 0.60	0.73	0.40 - 1.06	1.96	1.18 - 2.74	
EO# (10 ⁹ /L)	0.28	0.17 - 0.39	0.78	0.49 - 1.07	1.97	1.26 - 2.68	
BASO# (10 ⁹ /L)	1.91	1.56 - 2.25	4.92	4.33 - 5.51	13.83	12.45 - 15.21	
PLT-O (10 ⁹ /L)	48	31 - 64	187	152 - 223	436	366 - 506	
RET# (10 ¹² /L)	0.1163	0.0826 - 0.1501	0.0853	0.0563 - 0.1143	0.0398	0.0239 - 0.0557	
RET%	4.91	3.63 - 6.18	1.95	1.39 - 2.52	0.76	0.45 - 1.07	
IRF (%)	36.0	9.4 - 62.6	27.9	5.3 - 50.6	17.4	2.1 - 32.7	
IG (#)	0.36	0.28 - 0.44	0.99	0.79 - 1.19	2.59	1.50 - 3.68	
IG (%)	12.0	9.6 - 14.4	13.3	10.9 - 15.7	14.3	8.3 - 20.4	
RET-He (pg)	24.3	21.9 - 26.8	24.7	22.2 - 27.2	25.3	21.8 - 28.8	

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