



e-CHECK™ (XE)

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

OPEN MODE ASSAY

Expiration Date:		2020-04-13		Quality Control Data Due Date #1: 02-Mar-20		Quality Control Data Due Date #2: 13-Apr-20	
Lot Number:		00220810		00220811		00220812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.32	2.23 - 2.41	4.41	4.23 - 4.59	5.36	5.15 - 5.57	
HGB (g/dL)	5.5	5.3 - 5.7	12.1	11.7 - 12.5	16.3	15.8 - 16.8	
HCT (%)	17.4	16.4 - 18.4	36.3	34.5 - 38.1	47.7	45.3 - 50.1	
MCV (fL)	75.0	70.5 - 79.5	82.3	78.2 - 86.4	89.0	84.6 - 93.5	
MCH (pg)	23.7	22.0 - 25.4	27.4	25.8 - 29.0	30.4	28.9 - 31.9	
MCHC (g/dL)	31.6	28.8 - 34.4	33.3	31.0 - 35.6	34.2	31.8 - 36.6	
PLT (10 ⁹ /L)	57	42 - 72	230	205 - 255	547	503 - 591	
RDW-SD (fL)	45.5	41.0 - 50.1	46.1	41.5 - 50.7	44.9	39.5 - 50.3	
RDW-CV (%)	17.0	15.3 - 18.7	15.9	14.6 - 17.2	14.7	13.5 - 15.9	
MPV (fL)	9.0	7.8 - 10.2	9.3	8.6 - 10.0	9.6	9.1 - 10.1	
WBC (10 ⁹ /L)	2.90	2.49 - 3.31	6.97	6.27 - 7.67	17.87	16.26 - 19.48	
WBC-D (10 ⁹ /L)	2.85	2.48 - 3.22	6.22	5.54 - 6.90	17.10	15.39 - 18.81	
NEUT%	42.8	36.8 - 48.8	46.9	42.2 - 51.6	50.7	46.1 - 55.3	
LYMPH%	36.6	28.2 - 45.0	32.4	26.9 - 37.9	27.7	24.1 - 31.3	
MONO%	11.8	4.2 - 19.4	10.7	6.0 - 15.4	11.3	6.9 - 15.7	
EO%	8.8	5.5 - 12.1	10.1	6.5 - 13.7	10.3	6.7 - 13.9	
BASO%	60.9	54.8 - 67.0	64.6	60.7 - 68.5	72.1	69.2 - 75.0	
NEUT# (10 ⁹ /L)	1.25	1.00 - 1.50	3.27	2.78 - 3.76	9.07	7.89 - 10.25	
LYMPH# (10 ⁹ /L)	1.06	0.77 - 1.35	2.26	1.81 - 2.71	4.96	4.17 - 5.75	
MONO# (10 ⁹ /L)	0.34	0.12 - 0.56	0.74	0.41 - 1.07	2.02	1.21 - 2.83	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.70	0.44 - 0.96	1.83	1.17 - 2.49	
BASO# (10 ⁹ /L)	1.77	1.45 - 2.09	4.51	3.97 - 5.05	12.89	11.60 - 14.18	
PLT-O (10 ⁹ /L)	55	36 - 74	225	182 - 268	588	494 - 682	
RET# (10 ¹² /L)	0.1186	0.0842 - 0.1530	0.0763	0.0504 - 0.1022	0.0402	0.0241 - 0.0563	
RET%	5.11	3.78 - 6.44	1.73	1.23 - 2.23	0.75	0.44 - 1.06	
IRF (%)	45.6	11.9 - 79.3	38.7	7.4 - 70.0	26.0	3.1 - 48.9	
IG (#)	0.32	0.25 - 0.39	0.88	0.70 - 1.06	2.53	1.47 - 3.59	
IG (%)	11.4	9.1 - 13.7	12.8	10.5 - 15.1	13.5	7.8 - 19.2	
RET-He (pg)	23.8	21.4 - 26.2	23.8	21.4 - 26.2	23.8	20.5 - 27.1	

*Not all parameters are available on all analyzer models

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Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.32	2.23 - 2.41	4.41	4.23 - 4.59	5.31	5.10 - 5.52	
HGB (g/dL)	5.5	5.3 - 5.7	12.3	12.0 - 12.7	16.3	15.8 - 16.8	
HCT (%)	17.4	16.4 - 18.4	36.3	34.5 - 38.1	47.7	45.3 - 50.1	
MCV (fL)	75.0	70.5 - 79.5	82.3	78.2 - 86.4	89.8	85.3 - 94.3	
MCH (pg)	23.7	22.0 - 25.4	28.0	26.3 - 29.7	30.7	29.2 - 32.2	
MCHC (g/dL)	31.6	28.8 - 34.4	34.0	31.6 - 36.4	34.2	31.8 - 36.6	
PLT (10 ⁹ /L)	57	42 - 72	221	197 - 245	503	463 - 543	
RDW-SD (fL)	45.5	41.0 - 50.1	46.1	41.5 - 50.7	44.9	39.5 - 50.3	
RDW-CV (%)	17.0	15.3 - 18.7	15.9	14.6 - 17.2	14.7	13.5 - 15.9	
MPV (fL)	9.0	7.8 - 10.2	9.3	8.6 - 10.0	9.6	9.1 - 10.1	
WBC (10 ⁹ /L)	2.90	2.49 - 3.31	6.76	6.08 - 7.44	17.33	15.77 - 18.89	
WBC-D (10 ⁹ /L)	2.88	2.51 - 3.25	6.41	5.70 - 7.12	17.27	15.54 - 19.00	
NEUT%	43.1	37.1 - 49.1	46.9	42.2 - 51.6	49.8	45.3 - 54.3	
LYMPH%	36.6	28.2 - 45.0	32.7	27.1 - 38.3	28.6	24.9 - 32.3	
MONO%	11.7	4.2 - 19.2	10.2	5.7 - 14.7	11.0	6.7 - 15.3	
EO%	8.6	5.4 - 11.8	10.2	6.5 - 13.9	10.6	6.9 - 14.3	
BASO%	61.0	54.9 - 67.1	64.1	60.3 - 67.9	72.9	70.0 - 75.8	
NEUT# (10 ⁹ /L)	1.25	1.00 - 1.50	3.17	2.69 - 3.65	8.64	7.52 - 9.76	
LYMPH# (10 ⁹ /L)	1.06	0.77 - 1.35	2.21	1.77 - 2.65	4.96	4.17 - 5.75	
MONO# (10 ⁹ /L)	0.34	0.12 - 0.56	0.69	0.38 - 1.00	1.90	1.14 - 2.66	
EO# (10 ⁹ /L)	0.25	0.15 - 0.35	0.69	0.43 - 0.95	1.83	1.17 - 2.49	
BASO# (10 ⁹ /L)	1.77	1.45 - 2.09	4.33	3.81 - 4.85	12.63	11.37 - 13.89	
PLT-O (10 ⁹ /L)	55	36 - 74	225	182 - 268	570	479 - 662	
RET# (10 ¹² /L)	0.1127	0.0800 - 0.1454	0.0763	0.0504 - 0.1022	0.0402	0.0241 - 0.0563	
RET%	4.85	3.59 - 6.11	1.73	1.23 - 2.23	0.75	0.44 - 1.06	
IRF (%)	45.6	11.9 - 79.3	38.7	7.4 - 70.0	26.0	3.1 - 48.9	
IG (#)	0.32	0.25 - 0.39	0.88	0.70 - 1.06	2.50	1.45 - 3.56	
IG (%)	11.4	9.1 - 13.7	12.8	10.5 - 15.1	13.5	7.8 - 19.2	
RET-He (pg)	23.8	21.4 - 26.2	23.8	21.4 - 26.2	23.8	20.5 - 27.1	

*Not all parameters are available on all analyzer models

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