



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

OPEN MODE ASSAY

Expiration Date:		2019-11-25		Quality Control Data Due Date #1: 14-Oct-19		Quality Control Data Due Date #2: 25-Nov-19	
Lot Number:		92470801		92470802		92470803	
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	4.35	4.18 - 4.52	5.25	5.04 - 5.46	
HGB (g/dL)	5.6	5.4 - 5.8	12.0	11.7 - 12.4	16.2	15.7 - 16.7	
HCT (%)	17.3	16.3 - 18.3	35.5	33.7 - 37.3	46.6	44.3 - 48.9	
MCV (fL)	75.2	70.7 - 79.7	81.6	77.5 - 85.7	88.8	84.4 - 93.2	
MCH (pg)	24.4	22.7 - 26.1	27.7	26.0 - 29.4	30.8	29.3 - 32.3	
MCHC (g/dL)	32.5	29.6 - 35.4	33.9	31.5 - 36.3	34.7	32.3 - 37.1	
PLT (10 ⁹ /L)	62	46 - 78	235	209 - 261	549	505 - 593	
RDW-SD (fL)	44.0	39.6 - 48.4	42.0	37.8 - 46.2	43.3	38.1 - 48.5	
RDW-CV (%)	16.5	14.9 - 18.2	14.7	13.5 - 15.9	14.1	13.0 - 15.2	
MPV (fL)	9.1	7.9 - 10.3	9.5	8.8 - 10.2	9.7	9.2 - 10.2	
WBC (10 ⁹ /L)	2.95	2.54 - 3.36	6.99	6.29 - 7.69	16.36	14.89 - 17.83	
NEUT%	42.4	36.5 - 48.3	46.3	41.7 - 50.9	50.5	46.0 - 55.0	
LYMPH%	37.6	29.0 - 46.2	33.0	27.4 - 38.6	28.2	24.5 - 31.9	
MONO%	10.8	3.9 - 17.7	10.7	6.0 - 15.4	10.0	6.1 - 13.9	
EO%	9.2	5.8 - 12.6	10.0	6.4 - 13.6	11.3	7.3 - 15.3	
BASO%	62.4	56.2 - 68.6	66.8	62.8 - 70.8	75.4	71.6 - 79.2	
NEUT# (10 ⁹ /L)	1.25	1.00 - 1.50	3.23	2.75 - 3.71	8.26	7.19 - 9.33	
LYMPH# (10 ⁹ /L)	1.11	0.81 - 1.41	2.31	1.85 - 2.77	4.62	3.88 - 5.36	
MONO# (10 ⁹ /L)	0.32	0.11 - 0.53	0.75	0.41 - 1.09	1.63	0.98 - 2.28	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.70	0.44 - 0.96	1.85	1.18 - 2.52	
BASO# (10 ⁹ /L)	1.84	1.51 - 2.17	4.67	4.11 - 5.23	12.33	11.10 - 13.56	
PLT-O (10 ⁹ /L)	61	40 - 82	232	188 - 276	574	482 - 666	
RET# (10 ¹² /L)	0.0940	0.0667 - 0.1213	0.0776	0.0512 - 0.1040	0.0437	0.0262 - 0.0612	
RET%	4.09	3.03 - 5.15	1.78	1.26 - 2.30	0.83	0.49 - 1.17	
IRF (%)	57.5	15.0 - 100.1	48.9	9.3 - 88.5	31.8	3.8 - 59.8	
^a IG (#)	0.32	0.25 - 0.39	0.87	0.70 - 1.04	2.36	1.37 - 3.35	
^a IG (%)	11.28	9.02 - 13.54	12.62	10.35 - 14.89	13.79	8.00 - 19.58	
^c RET-He (pg)	23.7	21.3 - 26.1	23.9	21.5 - 26.3	24.2	20.8 - 27.6	

^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

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PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.30	2.21 - 2.39	4.35	4.18 - 4.52	5.15	4.94 - 5.36	
HGB (g/dL)	5.6	5.4 - 5.8	12.2	11.8 - 12.5	16.0	15.5 - 16.5	
HCT (%)	17.3	16.3 - 18.3	35.5	33.7 - 37.3	46.6	44.3 - 48.9	
MCV (fL)	75.2	70.7 - 79.7	81.6	77.5 - 85.7	90.5	86.0 - 95.0	
MCH (pg)	24.3	22.6 - 26.0	27.9	26.2 - 29.6	31.1	29.5 - 32.7	
MCHC (g/dL)	32.4	29.5 - 35.3	34.2	31.8 - 36.6	34.4	32.0 - 36.8	
PLT (10 ⁹ /L)	63	47 - 79	228	203 - 253	505	465 - 545	
RDW-SD (fL)	44.0	39.6 - 48.4	42.0	37.8 - 46.2	43.3	38.1 - 48.5	
RDW-CV (%)	16.5	14.9 - 18.2	14.7	13.5 - 15.9	14.1	13.0 - 15.2	
MPV (fL)	9.1	7.9 - 10.3	9.5	8.8 - 10.2	9.7	9.2 - 10.2	
WBC (10 ⁹ /L)	2.95	2.54 - 3.36	6.78	6.10 - 7.46	15.87	14.44 - 17.30	
NEUT%	42.8	36.8 - 48.8	46.3	41.7 - 50.9	51.3	46.7 - 55.9	
LYMPH%	37.6	29.0 - 46.2	33.0	27.4 - 38.6	28.0	24.4 - 31.6	
MONO%	10.8	3.9 - 17.7	10.5	5.9 - 15.1	9.6	5.9 - 13.3	
EO%	8.8	5.5 - 12.1	10.2	6.5 - 13.9	11.1	7.2 - 15.0	
BASO%	61.7	55.5 - 67.9	66.1	62.1 - 70.1	74.6	70.9 - 78.3	
NEUT# (10 ⁹ /L)	1.26	1.01 - 1.51	3.14	2.67 - 3.61	8.14	7.08 - 9.20	
LYMPH# (10 ⁹ /L)	1.11	0.81 - 1.41	2.24	1.79 - 2.69	4.44	3.73 - 5.15	
MONO# (10 ⁹ /L)	0.32	0.11 - 0.53	0.71	0.39 - 1.03	1.53	0.92 - 2.14	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.69	0.43 - 0.95	1.76	1.13 - 2.39	
BASO# (10 ⁹ /L)	1.82	1.49 - 2.15	4.48	3.94 - 5.02	11.84	10.66 - 13.02	
PLT-O (10 ⁹ /L)	61	40 - 82	232	188 - 276	557	468 - 646	
RET# (10 ¹² /L)	0.0846	0.0601 - 0.1091	0.0776	0.0512 - 0.1040	0.0437	0.0262 - 0.0612	
RET%	3.68	2.72 - 4.64	1.78	1.26 - 2.30	0.83	0.49 - 1.17	
IRF (%)	57.5	15.0 - 100.1	48.9	9.3 - 88.5	31.8	3.8 - 59.8	
^a IG (#)	0.33	0.25 - 0.41	0.89	0.71 - 1.07	2.31	1.34 - 3.28	
^a IG (%)	11.51	9.21 - 13.81	12.87	10.55 - 15.19	14.07	8.16 - 19.98	
^c RET-He (pg)	23.7	21.3 - 26.1	23.9	21.5 - 26.3	24.2	20.8 - 27.6	

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