



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

Expiration Date: 2010-04-26		Quality Control Data Due Date #1: 15-Mar-10			Quality Control Data Due Date #2: 26-Apr-10				
Lot Number:		00340810		00340811		00340812			
Control:		L1:Level 1		L2:Level 2		L3:Level 3			
PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
O P E N	RBC (10 ¹² /L)	2.25	2.16 - 2.34	4.32	4.19 - 4.45	5.21	5.05 - 5.37		
	HGB (g/dL)	5.5	5.3 - 5.7	11.7	11.3 - 12.1	15.7	15.2 - 16.2		
	HCT (%)	17.0	16.2 - 17.9	34.9	33.3 - 36.5	46.0	43.9 - 48.1		
	MCV (fL)	75.8	69.0 - 82.6	80.9	74.9 - 87.0	88.2	81.9 - 95.1		
	MCH (pg)	24.4	22.6 - 26.5	27.2	25.5 - 28.8	30.1	28.4 - 32.0		
	MCHC (g/dL)	32.2	29.6 - 35.4	33.6	31.1 - 36.2	34.1	31.7 - 36.8		
	PLT (10 ⁹ /L)	56	34 - 78	224	199 - 249	505	460 - 550		
	RDW-SD (fL)	44.8	40.3 - 49.3	45.7	41.1 - 50.3	46.0	41.4 - 50.6		
	RDW-CV (%)	16.7	15.0 - 18.4	16.0	14.4 - 17.6	15.2	13.7 - 16.7		
	MPV (fL)	9.1	8.4 - 9.8	9.4	8.8 - 10.0	9.7	9.1 - 10.3		
	WBC (10 ⁹ /L)	2.88	2.59 - 3.17	6.87	6.46 - 7.28	17.56	16.51 - 18.61		
	NEUT%	44.7	35.8 - 53.6	48.6	41.3 - 55.9	52.6	44.7 - 60.5		
	LYMPH%	33.6	20.2 - 47.0	29.7	23.8 - 35.6	24.1	19.3 - 28.9		
	MONO%	12.1	2.4 - 21.8	12.1	7.3 - 16.9	11.8	8.3 - 15.3		
	EO%	9.5	6.7 - 12.4	9.7	6.8 - 12.6	11.5	8.6 - 14.4		
	BASO%	62.0	43.4 - 80.6	66.6	46.6 - 86.6	75.7	56.8 - 94.6		
	NEUT# (10 ⁹ /L)	1.29	1.03 - 1.55	3.34	2.84 - 3.84	9.24	7.85 - 10.63		
	LYMPH# (10 ⁹ /L)	0.97	0.58 - 1.36	2.04	1.63 - 2.45	4.23	3.38 - 5.08		
	MONO# (10 ⁹ /L)	0.35	0.07 - 0.63	0.83	0.33 - 1.33	2.07	1.24 - 2.90		
	EO# (10 ⁹ /L)	0.27	0.19 - 0.35	0.67	0.47 - 0.87	2.01	1.51 - 2.51		
	BASO# (10 ⁹ /L)	1.78	1.25 - 2.31	4.58	3.21 - 5.95	13.29	9.97 - 16.61		
	PLT-O (10 ⁹ /L)	52	29 - 75	212	180 - 244	528	449 - 607		
	RET# (10 ¹² /L)	0.1493	0.1045 - 0.1941	0.1093	0.0765 - 0.1421	0.0521	0.0365 - 0.0677		
	RET%	6.65	4.66 - 8.65	2.53	1.77 - 3.29	1.00	0.70 - 1.30		
	IRF (%)	33.5	13.5 - 53.5	32.5	12.5 - 52.5	26.4	6.4 - 46.4		
	IG # ^a	0.34	0.31 - 0.37	0.90	0.68 - 1.13	2.60	1.82 - 3.38		
	IG % ^a	12.1	8.5 - 15.7	13.2	9.9 - 16.5	14.1	8.5 - 19.7		
	RET-He (pg) ^b	23.6	16.5 - 30.7	24.0	18.0 - 30.0	24.5	14.7 - 34.3		

^a IG values are only available with the Sysmex XT-Series IG Master software.

^b RET-HE values are only available with the Sysmex XT-Series RET Master software.

Sysmex recommends that laboratories establish their own Q.C. Target Values for each new lot number by collecting at least 10 data points per control level over 5 days. The mean Q.C. Target Values from this data collection should be inside the Expected Ranges. These Expected Ranges represent estimates of interlaboratory variation and are not included for use as the laboratory's internal Q.C. file limits. Sysmex recommends that each laboratory establish its own Q.C. file limits based on the laboratory's historical coefficient of variation. See your Sysmex Training Manual for more information on establishing Q.C. file limits.



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

Expiration Date: 2010-04-26		Quality Control Data Due Date #1: 15-Mar-10			Quality Control Data Due Date #2: 26-Apr-10				
Lot Number:		00340810		00340811		00340812			
Control:		L1:Level 1		L2:Level 2		L3:Level 3			
PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
CLOSED	RBC (10 ¹² /L)	2.25	2.12 - 2.39	4.32	4.10 - 4.54	5.21	4.95 - 5.47		
	HGB (g/dL)	5.5	5.2 - 5.8	11.7	11.1 - 12.3	15.7	14.9 - 16.5		
	HCT (%)	17.0	15.8 - 18.2	34.9	32.8 - 37.0	46.0	43.2 - 48.8		
	MCV (fL)	75.8	66.3 - 86.0	80.9	72.3 - 90.1	88.2	79.0 - 98.5		
	MCH (pg)	24.4	21.7 - 27.6	27.2	24.5 - 29.9	30.1	27.3 - 33.3		
	MCHC (g/dL)	32.2	28.4 - 36.9	33.6	30.0 - 37.4	34.1	30.6 - 38.1		
	PLT (10 ⁹ /L)	55	27 - 82	215	183 - 247	470	399 - 540		
	RDW-SD (fL)	44.8	40.3 - 49.3	45.7	41.1 - 50.3	46.0	41.4 - 50.6		
	RDW-CV (%)	16.7	15.0 - 18.4	16.0	14.4 - 17.6	15.2	13.7 - 16.7		
	MPV (fL)	9.1	8.4 - 9.8	9.4	8.8 - 10.0	9.7	9.1 - 10.3		
	WBC (10 ⁹ /L)	2.79	2.37 - 3.21	6.53	5.94 - 7.11	17.21	15.83 - 18.59		
	NEUT%	44.6	35.7 - 53.5	48.8	41.5 - 56.1	52.1	44.3 - 59.9		
	LYMPH%	33.7	20.2 - 47.2	29.4	23.5 - 35.3	24.6	19.7 - 29.5		
	MONO%	12.5	2.5 - 22.6	12.0	7.2 - 16.7	11.7	8.2 - 15.2		
	EO%	9.2	6.4 - 11.9	9.9	6.9 - 12.8	11.7	8.8 - 14.6		
	BASO%	62.4	43.7 - 81.2	65.3	45.7 - 84.8	74.1	55.6 - 92.7		
	NEUT# (10 ⁹ /L)	1.25	1.00 - 1.50	3.19	2.71 - 3.66	8.96	7.62 - 10.31		
	LYMPH# (10 ⁹ /L)	0.94	0.56 - 1.32	1.92	1.53 - 2.30	4.23	3.38 - 5.08		
	MONO# (10 ⁹ /L)	0.35	0.07 - 0.63	0.78	0.31 - 1.25	2.01	1.20 - 2.81		
	EO# (10 ⁹ /L)	0.26	0.18 - 0.33	0.64	0.45 - 0.84	2.01	1.51 - 2.51		
	BASO# (10 ⁹ /L)	1.74	1.22 - 2.27	4.26	2.98 - 5.54	12.76	9.57 - 15.95		
	PLT-O (10 ⁹ /L)	49	27 - 72	208	177 - 239	517	440 - 595		
	RET# (10 ¹² /L)	0.1493	0.1045 - 0.1941	0.1093	0.0765 - 0.1421	0.0521	0.0365 - 0.0677		
	RET%	6.65	4.66 - 8.65	2.53	1.77 - 3.29	1.00	0.70 - 1.30		
	IRF (%)	33.5	13.5 - 53.5	32.5	12.5 - 52.5	26.4	6.4 - 46.4		
	IG # ^a	0.34	0.31 - 0.37	0.90	0.68 - 1.13	2.60	1.82 - 3.38		
	IG % ^a	12.1	8.5 - 15.7	13.2	9.9 - 16.5	14.1	8.5 - 19.7		
	RET-He (pg) ^b	23.6	16.5 - 30.7	24.0	18.0 - 30.0	24.5	14.7 - 34.3		

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