



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

Expiration Date: <b>2012-04-23</b>		Quality Control Data Due Date #1: 12-Mar-12			Quality Control Data Due Date #2: 23-Apr-12				
Lot Number:		20320810		20320811		20320812			
Control:		L1:Level 1		L2:Level 2		L3:Level 3			
PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
OPEN	RBC (10 <sup>12</sup> /L)	2.28	2.19 - 2.37	4.33	4.20 - 4.46	5.33	5.17 - 5.49		
	HGB (g/dL)	5.6	5.4 - 5.8	11.9	11.5 - 12.3	16.1	15.6 - 16.6		
	HCT (%)	17.3	16.4 - 18.2	35.6	34.0 - 37.2	47.3	45.2 - 49.4		
	MCV (fL)	75.7	69.3 - 83.0	82.3	76.2 - 88.6	88.8	82.3 - 95.6		
	MCH (pg)	24.3	22.7 - 26.6	27.4	25.9 - 29.2	30.3	28.4 - 32.1		
	MCHC (g/dL)	32.2	29.6 - 35.4	33.3	31.0 - 36.1	34.1	31.6 - 36.7		
	PLT (10 <sup>9</sup> /L)	54	32 - 76	208	185 - 231	506	460 - 552		
	RDW-SD (fL)	44.5	40.1 - 49.0	45.7	41.1 - 50.3	44.0	39.6 - 48.4		
	RDW-CV (%)	16.5	14.9 - 18.2	15.6	14.0 - 17.2	14.4	13.0 - 15.8		
	MPV (fL)	8.8	8.1 - 9.5	9.2	8.6 - 9.8	9.4	8.8 - 10.0		
	WBC (10 <sup>9</sup> /L)	3.01	2.71 - 3.31	7.20	6.77 - 7.63	17.84	16.77 - 18.91		
	NEUT%	45.0	36.0 - 54.0	47.0	40.0 - 54.1	52.7	44.8 - 60.6		
	LYMPH%	32.2	19.3 - 45.1	30.6	24.5 - 36.7	24.9	19.9 - 29.9		
	MONO%	13.5	2.7 - 24.3	12.5	7.5 - 17.5	11.5	8.1 - 15.0		
	EO%	9.2	6.4 - 12.0	9.9	6.9 - 12.9	10.9	8.2 - 13.6		
	BASO%	63.5	44.5 - 82.6	66.3	46.4 - 86.2	74.5	55.9 - 93.1		
	NEUT# (10 <sup>9</sup> /L)	1.36	1.09 - 1.63	3.38	2.87 - 3.89	9.41	8.00 - 10.82		
	LYMPH# (10 <sup>9</sup> /L)	0.97	0.58 - 1.36	2.21	1.77 - 2.65	4.44	3.55 - 5.33		
	MONO# (10 <sup>9</sup> /L)	0.41	0.08 - 0.74	0.90	0.36 - 1.44	2.05	1.23 - 2.87		
	EO# (10 <sup>9</sup> /L)	0.28	0.20 - 0.36	0.71	0.50 - 0.92	1.95	1.46 - 2.44		
	BASO# (10 <sup>9</sup> /L)	1.91	1.34 - 2.48	4.78	3.35 - 6.21	13.29	9.97 - 16.61		
	PLT-O (10 <sup>9</sup> /L)	51	28 - 74	205	174 - 236	546	464 - 628		
	RET# (10 <sup>12</sup> /L)	0.1424	0.0997 - 0.1851	0.1104	0.0773 - 0.1435	0.0520	0.0364 - 0.0676		
	RET%	6.24	4.37 - 8.11	2.55	1.79 - 3.32	0.98	0.69 - 1.27		
	IRF (%)	42.4	22.4 - 62.4	41.5	21.5 - 61.5	30.7	10.7 - 50.7		
	IG # <sup>a</sup>	0.36	0.32 - 0.40	0.91	0.68 - 1.14	2.66	1.86 - 3.46		
	IG % <sup>a</sup>	12.2	8.5 - 15.9	12.7	9.5 - 15.9	14.3	8.6 - 20.0		
	RET-He (pg) <sup>b</sup>	24.6	17.2 - 32.0	24.7	18.5 - 30.9	24.8	14.9 - 34.7		

<sup>a</sup> IG values are only available with the Sysmex XT-Series IG Master software.

<sup>b</sup> 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: <b>2012-04-23</b>		Quality Control Data Due Date #1: 12-Mar-12			Quality Control Data Due Date #2: 23-Apr-12				
Lot Number:		20320810		20320811		20320812			
Control:		L1:Level 1		L2:Level 2		L3:Level 3			
<b>PARAMETERS</b>	<b>MEAN</b>	<b>EXPECTED RANGE</b>		<b>MEAN</b>	<b>EXPECTED RANGE</b>		<b>MEAN</b>	<b>EXPECTED RANGE</b>	
CLOSED	RBC (10 <sup>12</sup> /L)	2.28	2.14 - 2.42	4.33	4.11 - 4.55	5.33	5.06 - 5.60		
	HGB (g/dL)	5.6	5.3 - 5.9	11.9	11.3 - 12.5	16.1	15.3 - 16.9		
	HCT (%)	17.3	16.1 - 18.5	35.6	33.5 - 37.7	47.3	44.5 - 50.1		
	MCV (fL)	75.7	66.6 - 86.4	82.3	73.6 - 91.7	88.8	79.4 - 99.0		
	MCH (pg)	24.3	21.8 - 27.7	27.4	24.9 - 30.4	30.3	27.3 - 33.4		
	MCHC (g/dL)	32.2	28.4 - 36.9	33.3	30.0 - 37.3	34.1	30.5 - 38.0		
	PLT (10 <sup>9</sup> /L)	54	27 - 81	202	172 - 232	498	423 - 573		
	RDW-SD (fL)	44.5	40.1 - 49.0	45.7	41.1 - 50.3	44.0	39.6 - 48.4		
	RDW-CV (%)	16.5	14.9 - 18.2	15.6	14.0 - 17.2	14.4	13.0 - 15.8		
	MPV (fL)	8.8	8.1 - 9.5	9.2	8.6 - 9.8	9.4	8.8 - 10.0		
	WBC (10 <sup>9</sup> /L)	2.86	2.43 - 3.29	6.84	6.22 - 7.46	16.95	15.59 - 18.31		
	NEUT%	42.7	34.2 - 51.2	45.9	39.0 - 52.8	50.8	43.2 - 58.4		
	LYMPH%	33.9	20.3 - 47.5	31.7	25.4 - 38.0	26.2	21.0 - 31.4		
	MONO%	13.6	2.7 - 24.5	12.3	7.4 - 17.2	11.5	8.1 - 15.0		
	EO%	9.8	6.9 - 12.7	10.1	7.1 - 13.1	11.5	8.6 - 14.4		
	BASO%	66.8	46.8 - 86.8	67.8	47.5 - 88.1	78.4	58.8 - 98.0		
	NEUT# (10 <sup>9</sup> /L)	1.22	0.98 - 1.46	3.14	2.67 - 3.61	8.61	7.32 - 9.90		
	LYMPH# (10 <sup>9</sup> /L)	0.97	0.58 - 1.36	2.17	1.74 - 2.60	4.44	3.55 - 5.33		
	MONO# (10 <sup>9</sup> /L)	0.39	0.08 - 0.70	0.84	0.34 - 1.34	1.95	1.17 - 2.73		
	EO# (10 <sup>9</sup> /L)	0.28	0.20 - 0.36	0.69	0.48 - 0.90	1.95	1.46 - 2.44		
	BASO# (10 <sup>9</sup> /L)	1.91	1.34 - 2.48	4.64	3.25 - 6.03	13.29	9.97 - 16.61		
	PLT-O (10 <sup>9</sup> /L)	51	28 - 74	205	174 - 236	530	451 - 610		
	RET# (10 <sup>12</sup> /L)	0.1424	0.0997 - 0.1851	0.1104	0.0773 - 0.1435	0.0520	0.0364 - 0.0676		
	RET%	6.24	4.37 - 8.11	2.55	1.79 - 3.32	0.98	0.69 - 1.27		
	IRF (%)	42.4	22.4 - 62.4	41.5	21.5 - 61.5	30.7	10.7 - 50.7		
	IG # <sup>a</sup>	0.36	0.32 - 0.40	0.87	0.65 - 1.09	2.58	1.81 - 3.35		
	IG % <sup>a</sup>	12.2	8.5 - 15.9	12.7	9.5 - 15.9	14.3	8.6 - 20.0		
	RET-He (pg) <sup>b</sup>	24.6	17.2 - 32.0	24.7	18.5 - 30.9	24.8	14.9 - 34.7		

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