



**HEMATOLOGY CONTROL FOR SYSMEX XT-4000i Analyzers  
OPEN MODE ASSAY**

Expiration Date: <b>2012-02-27</b>		Quality Control Data Due Date #1: 16-Jan-12				Quality Control Data Due Date #2: 27-Feb-12				
Lot Number:		13420810			13420811			13420812		
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)	2.30	2.21	- 2.39	4.33	4.20	- 4.46	5.36	5.20	- 5.52
	HGB (g/dL)	5.9	5.7	- 6.1	12.1	11.7	- 12.5	16.4	15.9	- 16.9
	HCT (%)	18.2	17.3	- 19.1	36.3	34.7	- 37.9	47.8	45.6	- 50.0
	MCV (fL)	79.3	72.3	- 86.5	83.8	77.7	- 90.3	89.1	82.7	- 96.1
	MCH (pg)	25.6	23.7	- 27.8	28.0	26.3	- 29.7	30.5	28.8	- 32.5
	MCHC (g/dL)	32.3	29.6	- 35.5	33.4	30.9	- 36.0	34.3	31.8	- 37.0
	PLT (10 <sup>9</sup> /L)	57	34	- 80	209	186	- 232	493	449	- 537
	RDW-SD (fL)	45.1	40.6	- 49.6	44.1	39.7	- 48.5	45.2	40.7	- 49.7
	RDW-CV (%)	15.8	14.2	- 17.4	15.0	13.5	- 16.5	14.7	13.2	- 16.2
	MPV (fL)	9.2	8.5	- 9.9	9.7	9.1	- 10.3	9.9	9.3	- 10.5
	WBC (10 <sup>9</sup> /L)	2.93	2.64	- 3.22	7.08	6.66	- 7.50	18.06	16.98	- 19.14
	WBC-D (10 <sup>9</sup> /L)	2.79	2.51	- 3.07	6.21	5.84	- 6.58	16.55	15.56	- 17.54
	NEUT%	46.2	37.0	- 55.4	49.0	41.7	- 56.4	52.5	44.6	- 60.4
	LYMPH%	33.2	19.9	- 46.5	29.1	23.3	- 34.9	24.9	19.9	- 29.9
	MONO%	11.2	2.2	- 20.2	11.6	7.0	- 16.2	11.8	8.3	- 15.3
	EO%	9.4	6.6	- 12.2	10.3	7.2	- 13.4	10.8	8.1	- 13.5
	BASO%	62.7	43.9	- 81.5	67.6	47.3	- 87.9	74.8	56.1	- 93.5
	NEUT# (10 <sup>9</sup> /L)	1.35	1.08	- 1.62	3.47	2.95	- 3.99	9.48	8.06	- 10.90
	LYMPH# (10 <sup>9</sup> /L)	0.97	0.58	- 1.36	2.06	1.65	- 2.47	4.50	3.60	- 5.40
	MONO# (10 <sup>9</sup> /L)	0.33	0.07	- 0.59	0.82	0.33	- 1.31	2.14	1.28	- 3.00
	EO# (10 <sup>9</sup> /L)	0.28	0.20	- 0.36	0.73	0.51	- 0.95	1.95	1.46	- 2.44
	BASO# (10 <sup>9</sup> /L)	1.84	1.29	- 2.39	4.78	3.35	- 6.21	13.52	10.14	- 16.90
	PLT-O (10 <sup>9</sup> /L)	52	29	- 75	202	172	- 232	519	441	- 597
	RET# (10 <sup>12</sup> /L)	0.1450	0.1015	- 0.1885	0.0982	0.0687	- 0.1277	0.0507	0.0355	- 0.0659
RET%	6.31	4.42	- 8.20	2.27	1.59	- 2.95	0.94	0.66	- 1.22	
IRF (%)	54.9	34.9	- 74.9	52.5	32.5	- 72.5	39.7	19.7	- 59.7	
IG #	0.35	0.32	- 0.39	0.93	0.70	- 1.16	2.69	1.88	- 3.50	
IG %	12.4	8.7	- 16.1	13.2	9.9	- 16.5	14.2	8.5	- 19.9	
RET-He (pg)	24.2	16.9	- 31.5	24.5	18.4	- 30.6	25.2	15.1	- 35.3	

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-4000i Analyzers  
CLOSED MODE ASSAY**

Expiration Date: <b>2012-02-27</b>		Quality Control Data Due Date #1: 16-Jan-12			Quality Control Data Due Date #2: 27-Feb-12					
Lot Number:		13420810		13420811		13420812				
Control:		L1:Level 1		L2:Level 2		L3:Level 3				
PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		
CLOSED	RBC (10 <sup>12</sup> /L)	2.30	2.16	- 2.44	4.33	4.11	- 4.55	5.36	5.09	- 5.63
	HGB (g/dL)	5.9	5.5	- 6.3	12.1	11.5	- 12.7	16.4	15.6	- 17.2
	HCT (%)	18.2	16.9	- 19.5	36.3	34.1	- 38.5	47.8	44.9	- 50.7
	MCV (fL)	79.3	69.4	- 90.1	83.8	75.1	- 93.5	89.1	79.8	- 99.5
	MCH (pg)	25.6	22.7	- 28.9	28.0	25.3	- 30.9	30.5	27.7	- 33.8
	MCHC (g/dL)	32.3	28.5	- 36.9	33.4	29.9	- 37.2	34.3	30.7	- 38.3
	PLT (10 <sup>9</sup> /L)	57	29	- 86	203	172	- 233	486	413	- 558
	RDW-SD (fL)	45.1	40.6	- 49.6	44.1	39.7	- 48.5	45.2	40.7	- 49.7
	RDW-CV (%)	15.8	14.2	- 17.4	15.0	13.5	- 16.5	14.7	13.2	- 16.2
	MPV (fL)	9.2	8.5	- 9.9	9.7	9.1	- 10.3	9.9	9.3	- 10.5
	WBC (10 <sup>9</sup> /L)	2.84	2.42	- 3.27	6.73	6.12	- 7.33	17.16	15.78	- 18.53
	WBC-D (10 <sup>9</sup> /L)	2.79	2.37	- 3.21	6.40	5.82	- 6.97	16.96	15.61	- 18.32
	NEUT%	45.1	36.1	- 54.1	48.1	40.9	- 55.3	50.6	43.0	- 58.1
	LYMPH%	34.1	20.5	- 47.8	30.0	24.0	- 36.0	26.2	21.0	- 31.5
	MONO%	11.0	2.2	- 19.9	11.3	6.8	- 15.9	11.8	8.3	- 15.4
	EO%	9.8	6.8	- 12.7	10.5	7.4	- 13.7	11.4	8.5	- 14.2
	BASO%	64.7	45.3	- 84.2	68.9	48.3	- 89.6	78.8	59.1	- 98.5
	NEUT# (10 <sup>9</sup> /L)	1.28	1.03	- 1.54	3.24	2.75	- 3.72	8.67	7.37	- 9.98
	LYMPH# (10 <sup>9</sup> /L)	0.97	0.58	- 1.36	2.02	1.62	- 2.42	4.50	3.60	- 5.40
	MONO# (10 <sup>9</sup> /L)	0.31	0.06	- 0.56	0.76	0.31	- 1.22	2.03	1.22	- 2.85
	EO# (10 <sup>9</sup> /L)	0.28	0.19	- 0.36	0.71	0.50	- 0.92	1.95	1.46	- 2.44
	BASO# (10 <sup>9</sup> /L)	1.84	1.29	- 2.39	4.64	3.25	- 6.03	13.52	10.14	- 16.90
	PLT-O (10 <sup>9</sup> /L)	52	29	- 75	202	172	- 232	503	428	- 579
	RET# (10 <sup>12</sup> /L)	0.1450	0.1015	- 0.1885	0.0982	0.0687	- 0.1277	0.0507	0.0355	- 0.0659
	RET%	6.31	4.42	- 8.20	2.27	1.59	- 2.95	0.94	0.66	- 1.22
	IRF (%)	54.9	34.9	- 74.9	52.5	32.5	- 72.5	39.7	19.7	- 59.7
	IG #	0.35	0.32	- 0.39	0.89	0.67	- 1.12	2.61	1.83	- 3.39
	IG %	12.4	8.7	- 16.1	13.2	9.9	- 16.5	14.2	8.5	- 19.9
	RET-He (pg)	24.2	16.9	- 31.5	24.5	18.4	- 30.6	25.2	15.1	- 35.3

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.