



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

Expiration Date: 2010-08-16		Quality Control Data Due Date #1: 5-Jul-10			Quality Control Data Due Date #2: 16-Aug-10		
Lot Number:		01460810		01460811		01460812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
OPEN	RBC (10 ¹² /L)	2.29	2.20 - 2.38	4.37	4.24 - 4.50	5.31	5.15 - 5.47
	HGB (g/dL)	5.7	5.5 - 5.9	12.0	11.6 - 12.4	16.2	15.7 - 16.7
	HCT (%)	17.8	16.9 - 18.7	36.0	34.4 - 37.6	47.7	45.6 - 49.8
	MCV (fL)	78.1	71.0 - 85.0	82.9	76.4 - 88.7	90.1	83.3 - 96.8
	MCH (pg)	25.0	23.0 - 27.0	27.6	25.9 - 29.2	30.5	28.7 - 32.4
	MCHC (g/dL)	32.5	29.3 - 35.1	33.8	30.9 - 36.0	34.4	31.5 - 36.6
	PLT (10 ⁹ /L)	56	34 - 78	220	196 - 244	516	470 - 562
	RDW-SD (fL)	45.0	40.5 - 49.5	45.6	41.0 - 50.2	46.4	41.8 - 51.0
	RDW-CV (%)	16.4	14.8 - 18.0	15.7	14.1 - 17.3	15.1	13.6 - 16.6
	MPV (fL)	8.9	8.2 - 9.6	9.4	8.8 - 10.0	9.6	9.0 - 10.2
	WBC (10 ⁹ /L)	2.97	2.67 - 3.27	7.07	6.65 - 7.49	18.03	16.95 - 19.11
	WBC-D (10 ⁹ /L)	2.91	2.62 - 3.20	6.40	6.02 - 6.78	17.35	16.31 - 18.39
	NEUT%	45.6	36.5 - 54.7	48.9	41.6 - 56.2	53.0	45.1 - 61.0
	LYMPH%	33.4	20.0 - 46.8	29.1	23.3 - 34.9	23.9	19.1 - 28.7
	MONO%	11.4	2.3 - 20.5	11.8	7.1 - 16.5	12.1	8.5 - 15.7
	EO%	9.6	6.7 - 12.5	10.2	7.1 - 13.3	11.0	8.3 - 13.8
	BASO%	62.8	44.0 - 81.6	66.8	46.8 - 86.8	75.6	56.7 - 94.5
	NEUT# (10 ⁹ /L)	1.36	1.09 - 1.63	3.46	2.94 - 3.98	9.56	8.13 - 10.99
	LYMPH# (10 ⁹ /L)	0.99	0.59 - 1.39	2.06	1.65 - 2.47	4.31	3.45 - 5.17
	MONO# (10 ⁹ /L)	0.34	0.07 - 0.61	0.83	0.33 - 1.33	2.17	1.30 - 3.04
EO# (10 ⁹ /L)	0.29	0.20 - 0.38	0.72	0.50 - 0.94	1.98	1.49 - 2.48	
BASO# (10 ⁹ /L)	1.87	1.31 - 2.43	4.72	3.30 - 6.14	13.63	10.22 - 17.04	
PLT-O (10 ⁹ /L)	51	28 - 74	206	175 - 237	529	450 - 608	
RET# (10 ¹² /L)	0.1619	0.1133 - 0.2105	0.1122	0.0785 - 0.1459	0.0523	0.0366 - 0.0680	
RET%	7.08	4.96 - 9.20	2.57	1.80 - 3.34	0.99	0.69 - 1.29	
IRF (%)	39.7	19.7 - 59.7	36.7	16.7 - 56.7	29.2	9.2 - 49.2	
IG #	0.35	0.32 - 0.39	0.92	0.69 - 1.15	2.39	1.67 - 3.11	
IG %	12.2	8.5 - 15.9	13.2	9.9 - 16.5	12.7	7.6 - 17.8	
RET-He (pg)	23.9	16.7 - 31.1	24.1	18.1 - 30.1	24.9	14.9 - 34.9	

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: 2010-08-16		Quality Control Data Due Date #1: 5-Jul-10			Quality Control Data Due Date #2: 16-Aug-10					
Lot Number:		01460810		01460811		01460812				
Control:		L1:Level 1		L2:Level 2		L3:Level 3				
CLOSED	PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
	RBC (10 ¹² /L)	2.29	2.15	- 2.43	4.37	4.15	- 4.59	5.31	5.04	- 5.58
	HGB (g/dL)	5.7	5.4	- 6.0	12.0	11.4	- 12.6	16.2	15.4	- 17.0
	HCT (%)	17.8	16.6	- 19.0	36.0	33.8	- 38.2	47.7	44.8	- 50.6
	MCV (fL)	78.1	68.2	- 88.5	82.9	73.7	- 91.9	90.1	80.4	- 100.2
	MCH (pg)	25.0	22.1	- 28.1	27.6	24.8	- 30.4	30.5	27.6	- 33.7
	MCHC (g/dL)	32.5	28.1	- 36.5	33.8	29.9	- 37.2	34.4	30.4	- 37.9
	PLT (10 ⁹ /L)	55	27	- 82	211	180	- 243	480	408	- 552
	RDW-SD (fL)	45.0	40.5	- 49.5	45.6	41.0	- 50.2	46.4	41.8	- 51.0
	RDW-CV (%)	16.4	14.8	- 18.0	15.7	14.1	- 17.3	15.1	13.6	- 16.6
	MPV (fL)	8.9	8.2	- 9.6	9.4	8.8	- 10.0	9.6	9.0	- 10.2
	WBC (10 ⁹ /L)	2.88	2.45	- 3.31	6.72	6.11	- 7.32	17.67	16.26	- 19.08
	WBC-D (10 ⁹ /L)	2.82	2.40	- 3.25	6.08	5.53	- 6.63	17.00	15.64	- 18.36
	NEUT%	45.3	36.2	- 54.4	49.3	41.9	- 56.7	52.5	44.6	- 60.4
	LYMPH%	33.3	20.0	- 46.7	28.8	23.1	- 34.6	24.4	19.5	- 29.3
	MONO%	11.8	2.4	- 21.2	11.6	7.0	- 16.3	11.9	8.3	- 15.5
	EO%	9.6	6.7	- 12.4	10.3	7.2	- 13.4	11.2	8.4	- 14.0
	BASO%	63.6	44.5	- 82.7	65.4	45.7	- 85.0	74.1	55.5	- 92.6
	NEUT# (10 ⁹ /L)	1.31	1.04	- 1.57	3.31	2.81	- 3.81	9.27	7.88	- 10.67
	LYMPH# (10 ⁹ /L)	0.96	0.58	- 1.34	1.94	1.55	- 2.32	4.31	3.45	- 5.17
	MONO# (10 ⁹ /L)	0.34	0.07	- 0.61	0.78	0.31	- 1.25	2.10	1.26	- 2.95
	EO# (10 ⁹ /L)	0.28	0.19	- 0.36	0.69	0.48	- 0.90	1.98	1.49	- 2.48
	BASO# (10 ⁹ /L)	1.83	1.28	- 2.38	4.39	3.07	- 5.71	13.08	9.81	- 16.36
	PLT-O (10 ⁹ /L)	48	27	- 70	202	172	- 232	518	441	- 596
	RET# (10 ¹² /L)	0.1619	0.1133	- 0.2105	0.1122	0.0785	- 0.1459	0.0523	0.0366	- 0.0680
	RET%	7.08	4.96	- 9.20	2.57	1.80	- 3.34	0.99	0.69	- 1.29
	IRF (%)	39.7	19.7	- 59.7	36.7	16.7	- 56.7	29.2	9.2	- 49.2
	IG #	0.35	0.32	- 0.39	0.92	0.69	- 1.15	2.39	1.67	- 3.11
IG %	12.2	8.5	- 15.9	13.2	9.9	- 16.5	12.7	7.6	- 17.8	
RET-He (pg)	23.9	16.7	- 31.1	24.1	18.1	- 30.1	24.9	14.9	- 34.9	

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