



**HEMATOLOGY CONTROL FOR SYSMEX XT-SERIES
OPEN MODE ASSAY**

Expiration Date: 2009-02-02		Quality Control Data Due Date #1: 23-Dec-08			Quality Control Data Due Date #2: 2-Feb-09					
Lot Number:		83170810		83170811		83170812				
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)	2.30	2.21	- 2.39	4.32	4.19	- 4.45	5.23	5.08	- 5.39
	HGB (g/dL)	5.9	5.7	- 6.1	12.5	12.1	- 12.8	16.6	16.1	- 17.1
	HCT (%)	18.0	17.1	- 18.9	36.6	34.9	- 38.2	47.8	45.6	- 49.9
	MCV (fL)	78.4	71.6	- 85.8	84.8	78.6	- 91.3	91.3	84.6	- 98.3
	MCH (pg)	25.7	23.7	- 27.8	28.9	27.2	- 30.7	31.7	29.9	- 33.7
	MCHC (g/dL)	32.8	29.9	- 35.9	34.1	31.6	- 36.7	34.8	32.3	- 37.5
	PLT (10 ⁹ /L)	56	33	- 78	206	183	- 228	501	456	- 546
	RDW-SD (fL)	44.7	40.2	- 49.1	42.8	38.5	- 47.0	44.1	39.7	- 48.5
	RDW-CV (%)	15.9	14.3	- 17.5	14.4	13.0	- 15.9	13.9	12.5	- 15.3
	MPV (fL)	9.1	8.4	- 9.8	9.5	8.9	- 10.0	9.7	9.1	- 10.3
	WBC (10 ⁹ /L)	2.89	2.60	- 3.18	6.90	6.49	- 7.31	18.03	16.95	- 19.11
	NEUT%	43.5	34.8	- 52.2	46.7	39.7	- 53.8	51.9	44.1	- 59.7
	LYMPH%	35.3	21.2	- 49.4	32.1	25.6	- 38.5	25.1	20.1	- 30.2
	MONO%	12.0	2.4	- 21.7	11.6	6.9	- 16.2	12.1	8.5	- 15.7
	EO%	9.2	6.4	- 11.9	9.6	6.7	- 12.5	10.9	8.1	- 13.6
	BASO%	63.2	44.2	- 82.1	66.3	46.4	- 86.2	75.1	56.3	- 93.9
	NEUT# (10 ⁹ /L)	1.26	1.01	- 1.51	3.23	2.74	- 3.71	9.36	7.95	- 10.76
	LYMPH# (10 ⁹ /L)	1.02	0.61	- 1.43	2.21	1.77	- 2.65	4.53	3.63	- 5.44
	MONO# (10 ⁹ /L)	0.35	0.07	- 0.63	0.80	0.32	- 1.28	2.18	1.31	- 3.06
	EO# (10 ⁹ /L)	0.26	0.19	- 0.34	0.67	0.47	- 0.87	1.96	1.47	- 2.45
BASO# (10 ⁹ /L)	1.82	1.28	- 2.37	4.57	3.20	- 5.95	13.54	10.16	- 16.93	
PLT-O (10 ⁹ /L)	52	29	- 75	196	167	- 226	518	440	- 596	
RET# (10 ¹² /L)	0.1594	0.1116	- 0.2072	0.1110	0.0777	- 0.1444	0.0493	0.0345	- 0.0641	
RET%	6.93	4.85	- 9.01	2.57	1.80	- 3.34	0.94	0.66	- 1.22	
IRF (%)	41.7	21.7	- 61.7	38.6	18.6	- 58.6	31.2	11.2	- 51.2	

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-SERIES
CLOSED MODE ASSAY**

Expiration Date: 2009-02-02		Quality Control Data Due Date #1: 23-Dec-08			Quality Control Data Due Date #2: 2-Feb-09					
Lot Number:		83170810		83170811		83170812				
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)	2.30	2.16	- 2.44	4.32	4.10	- 4.53	5.23	4.97	- 5.50
	HGB (g/dL)	5.9	5.6	- 6.3	12.5	11.8	- 13.1	16.6	15.8	- 17.5
	HCT (%)	18.0	16.8	- 19.3	36.6	34.4	- 38.8	47.8	44.9	- 50.6
	MCV (fL)	78.4	68.8	- 89.3	84.8	75.9	- 94.6	91.3	81.7	- 101.8
	MCH (pg)	25.7	22.8	- 29.0	28.9	26.1	- 31.9	31.7	28.7	- 35.1
	MCHC (g/dL)	32.8	28.8	- 37.3	34.1	30.5	- 38.1	34.8	31.2	- 38.9
	PLT (10 ⁹ /L)	55	27	- 82	198	168	- 227	466	396	- 536
	RDW-SD (fL)	44.7	40.2	- 49.1	42.8	38.5	- 47.0	44.1	39.7	- 48.5
	RDW-CV (%)	15.9	14.3	- 17.5	14.4	13.0	- 15.9	13.9	12.5	- 15.3
	MPV (fL)	9.1	8.4	- 9.8	9.5	8.9	- 10.0	9.7	9.1	- 10.3
	WBC (10 ⁹ /L)	2.80	2.38	- 3.22	6.56	5.97	- 7.14	17.67	16.26	- 19.08
	NEUT%	43.3	34.7	- 52.0	47.1	40.0	- 54.2	51.3	43.6	- 59.0
	LYMPH%	35.3	21.2	- 49.4	31.7	25.4	- 38.1	25.7	20.5	- 30.8
	MONO%	12.4	2.5	- 22.3	11.4	6.9	- 16.0	12.0	8.4	- 15.6
	EO%	9.0	6.3	- 11.7	9.7	6.8	- 12.7	11.1	8.3	- 13.9
	BASO%	63.8	44.7	- 83.0	64.9	45.4	- 84.4	73.6	55.2	- 92.0
	NEUT# (10 ⁹ /L)	1.21	0.97	- 1.46	3.09	2.62	- 3.55	9.06	7.70	- 10.42
	LYMPH# (10 ⁹ /L)	0.99	0.59	- 1.38	2.08	1.66	- 2.49	4.53	3.63	- 5.44
	MONO# (10 ⁹ /L)	0.35	0.07	- 0.63	0.75	0.30	- 1.20	2.12	1.27	- 2.97
	EO# (10 ⁹ /L)	0.25	0.18	- 0.33	0.64	0.45	- 0.83	1.96	1.47	- 2.45
	BASO# (10 ⁹ /L)	1.79	1.25	- 2.32	4.25	2.98	- 5.53	13.00	9.75	- 16.25
PLT-O (10 ⁹ /L)	49	27	- 72	193	164	- 221	507	431	- 584	
RET# (10 ¹² /L)	0.1594	0.1116	- 0.2072	0.1110	0.0777	- 0.1444	0.0493	0.0345	- 0.0641	
RET%	6.93	4.85	- 9.01	2.57	1.80	- 3.34	0.94	0.66	- 1.22	
IRF (%)	41.7	21.7	- 61.7	38.6	18.6	- 58.6	31.2	11.2	- 51.2	

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.