



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

Expiration Date: 2010-10-11		Quality Control Data Due Date #1: 30-Aug-10			Quality Control Data Due Date #2: 11-Oct-10					
Lot Number:		02020810		02020811		02020812				
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)	2.28	2.19	- 2.37	4.32	4.19	- 4.45	5.20	5.04	- 5.36
	HGB (g/dL)	5.6	5.4	- 5.8	12.0	11.6	- 12.4	15.8	15.3	- 16.3
	HCT (%)	17.3	16.4	- 18.2	35.5	33.9	- 37.1	46.5	44.4	- 48.6
	MCV (fL)	76.2	69.3	- 83.0	82.2	76.2	- 88.5	89.3	82.9	- 96.3
	MCH (pg)	24.5	22.7	- 26.6	27.7	26.2	- 29.5	30.4	28.6	- 32.3
	MCHC (g/dL)	32.5	29.6	- 35.4	34.1	31.4	- 36.5	34.5	31.5	- 36.6
	PLT (10 ⁹ /L)	55	33	- 77	212	189	- 235	516	470	- 562
	RDW-SD (fL)	46.6	41.9	- 51.3	44.6	40.1	- 49.1	46.8	42.1	- 51.5
	RDW-CV (%)	17.2	15.5	- 18.9	15.4	13.9	- 16.9	15.2	13.7	- 16.7
	MPV (fL)	9.3	8.6	- 10.0	9.7	9.1	- 10.3	10.0	9.4	- 10.6
	WBC (10 ⁹ /L)	3.03	2.73	- 3.33	7.37	6.93	- 7.81	18.45	17.34	- 19.56
	WBC-D (10 ⁹ /L)	2.90	2.61	- 3.19	6.40	6.02	- 6.78	16.55	15.56	- 17.54
	NEUT%	44.1	35.3	- 52.9	48.7	41.4	- 56.0	51.4	43.7	- 59.1
	LYMPH%	34.6	20.8	- 48.4	29.5	23.6	- 35.4	25.5	20.4	- 30.6
	MONO%	12.1	2.4	- 21.8	11.4	6.8	- 16.0	11.9	8.3	- 15.5
	EO%	9.1	6.4	- 11.8	10.4	7.3	- 13.5	11.2	8.4	- 14.0
	BASO%	62.5	43.8	- 81.3	66.7	46.7	- 86.7	74.0	55.5	- 92.5
	NEUT# (10 ⁹ /L)	1.34	1.07	- 1.61	3.59	3.05	- 4.13	9.49	8.07	- 10.91
	LYMPH# (10 ⁹ /L)	1.05	0.63	- 1.47	2.17	1.74	- 2.60	4.70	3.76	- 5.64
	MONO# (10 ⁹ /L)	0.37	0.07	- 0.67	0.84	0.34	- 1.34	2.19	1.31	- 3.07
	EO# (10 ⁹ /L)	0.27	0.19	- 0.35	0.77	0.54	- 1.00	2.07	1.55	- 2.59
	BASO# (10 ⁹ /L)	1.89	1.32	- 2.46	4.92	3.44	- 6.40	13.66	10.25	- 17.08
	PLT-O (10 ⁹ /L)	49	27	- 71	203	173	- 233	530	451	- 610
	RET# (10 ¹² /L)	0.1489	0.1042	- 0.1936	0.1036	0.0725	- 0.1347	0.0474	0.0332	- 0.0616
	RET%	6.54	4.58	- 8.50	2.40	1.68	- 3.12	0.91	0.64	- 1.18
	IRF (%)	38.7	18.7	- 58.7	35.5	15.5	- 55.5	27.5	7.5	- 47.5
	IG #	0.36	0.32	- 0.40	0.96	0.72	- 1.20	2.50	1.75	- 3.25
	IG %	12.0	8.4	- 15.6	13.1	9.8	- 16.4	12.9	7.7	- 18.1
	RET-He (pg)	25.2	17.6	- 32.8	25.3	19.0	- 31.6	26.0	15.6	- 36.4

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: 2010-10-11		Quality Control Data Due Date #1: 30-Aug-10			Quality Control Data Due Date #2: 11-Oct-10					
Lot Number:		02020810		02020811		02020812				
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)	2.28	2.14	- 2.42	4.32	4.10	- 4.54	5.20	4.94	- 5.46
	HGB (g/dL)	5.6	5.3	- 5.9	12.0	11.4	- 12.6	15.8	15.0	- 16.6
	HCT (%)	17.3	16.1	- 18.5	35.5	33.4	- 37.6	46.5	43.7	- 49.3
	MCV (fL)	76.2	66.6	- 86.4	82.2	73.6	- 91.7	89.3	80.1	- 99.8
	MCH (pg)	24.5	21.8	- 27.7	27.7	25.1	- 30.7	30.4	27.5	- 33.6
	MCHC (g/dL)	32.5	28.4	- 36.9	34.1	30.3	- 37.8	34.5	30.5	- 38.0
	PLT (10 ⁹ /L)	54	27	- 81	204	173	- 234	480	408	- 552
	RDW-SD (fL)	46.6	41.9	- 51.3	44.6	40.1	- 49.1	46.8	42.1	- 51.5
	RDW-CV (%)	17.2	15.5	- 18.9	15.4	13.9	- 16.9	15.2	13.7	- 16.7
	MPV (fL)	9.3	8.6	- 10.0	9.7	9.1	- 10.3	10.0	9.4	- 10.6
	WBC (10 ⁹ /L)	2.94	2.50	- 3.38	7.00	6.37	- 7.63	18.08	16.63	- 19.53
	WBC-D (10 ⁹ /L)	2.81	2.39	- 3.23	6.08	5.53	- 6.63	16.22	14.92	- 17.52
	NEUT%	44.0	35.2	- 52.8	49.0	41.7	- 56.4	50.8	43.2	- 58.4
	LYMPH%	34.7	20.8	- 48.5	29.1	23.3	- 35.0	26.0	20.8	- 31.2
	MONO%	12.6	2.5	- 22.7	11.3	6.8	- 15.8	11.7	8.2	- 15.3
	EO%	8.7	6.1	- 11.3	10.6	7.4	- 13.7	11.4	8.6	- 14.3
	BASO%	63.0	44.1	- 81.9	65.4	45.7	- 85.0	72.5	54.4	- 90.7
	NEUT# (10 ⁹ /L)	1.29	1.04	- 1.55	3.43	2.92	- 3.95	9.19	7.81	- 10.56
	LYMPH# (10 ⁹ /L)	1.02	0.61	- 1.43	2.04	1.63	- 2.45	4.70	3.76	- 5.64
	MONO# (10 ⁹ /L)	0.37	0.07	- 0.67	0.79	0.32	- 1.26	2.12	1.27	- 2.97
	EO# (10 ⁹ /L)	0.26	0.18	- 0.33	0.74	0.52	- 0.96	2.07	1.55	- 2.59
	BASO# (10 ⁹ /L)	1.85	1.30	- 2.41	4.58	3.20	- 5.95	13.11	9.84	- 16.39
	PLT-O (10 ⁹ /L)	47	26	- 67	199	169	- 229	519	441	- 597
	RET# (10 ¹² /L)	0.1489	0.1042	- 0.1936	0.1036	0.0725	- 0.1347	0.0474	0.0332	- 0.0616
	RET%	6.54	4.58	- 8.50	2.40	1.68	- 3.12	0.91	0.64	- 1.18
	IRF (%)	38.7	18.7	- 58.7	35.5	15.5	- 55.5	27.5	7.5	- 47.5
	IG #	0.36	0.32	- 0.40	0.96	0.72	- 1.20	2.50	1.75	- 3.25
IG %	12.0	8.4	- 15.6	13.1	9.8	- 16.4	12.9	7.7	- 18.1	
RET-He (pg)	25.2	17.6	- 32.8	25.3	19.0	- 31.6	26.0	15.6	- 36.4	

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