



**HEMATOLOGY CONTROL FOR SYSMEX XE-5000 ANALYZERS
OPEN MODE ASSAY**

Expiration Date: 2010-04-26		Quality Control Data Due Date #1: 15-Mar-10			Quality Control Data Due Date #2: 26-Apr-10				
Lot Number:		00340810		00340811		00340812			
Control:		L1:Level 1		L2:Level 2		L3:Level 3			
PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
O P E N	RBC (10 ¹² /L)	2.25	2.16 - 2.34	4.33	4.20 - 4.46	5.19	5.03 - 5.35		
	HGB (g/dL)	5.6	5.4 - 5.8	11.9	11.5 - 12.3	15.9	15.4 - 16.4		
	HCT (%)	16.7	15.9 - 17.5	34.5	32.9 - 36.1	44.9	42.9 - 46.9		
	MCV (fL)	74.1	67.8 - 81.2	79.7	73.9 - 85.8	86.5	80.2 - 93.2		
	MCH (pg)	24.9	23.0 - 27.0	27.5	25.9 - 29.2	30.6	28.9 - 32.5		
	MCHC (g/dL)	33.5	30.7 - 36.7	34.6	32.0 - 37.2	35.4	32.9 - 38.2		
	PLT (10 ⁹ /L)	55	33 - 77	220	196 - 244	497	452 - 542		
	RDW-SD (fL)	44.4	40.0 - 48.8	44.8	40.3 - 49.3	45.5	41.0 - 50.1		
	RDW-CV (%)	16.5	14.9 - 18.2	15.4	13.9 - 16.9	14.7	13.2 - 16.2		
	MPV (fL)	8.9	8.2 - 9.6	9.2	8.6 - 9.8	9.5	8.9 - 10.1		
	WBC (10 ⁹ /L)	2.95	2.66 - 3.25	6.84	6.43 - 7.25	17.60	16.54 - 18.66		
	WBC-D (10 ⁹ /L)	2.80	2.52 - 3.08	6.36	5.98 - 6.74	16.71	15.71 - 17.71		
	NEUT%	45.4	36.3 - 54.5	48.7	41.4 - 56.0	52.6	44.7 - 60.5		
	LYMPH%	33.7	20.2 - 47.2	29.3	23.4 - 35.2	24.3	19.4 - 29.2		
	MONO%	11.4	2.3 - 20.5	11.8	7.1 - 16.5	11.3	7.9 - 14.7		
	EO%	9.5	6.7 - 12.4	10.3	7.2 - 13.4	11.8	8.9 - 14.8		
	BASO%	62.9	44.0 - 81.8	67.1	47.0 - 87.2	73.0	54.8 - 91.3		
	NEUT# (10 ⁹ /L)	1.34	1.07 - 1.61	3.33	2.83 - 3.83	9.26	7.87 - 10.65		
	LYMPH# (10 ⁹ /L)	1.00	0.60 - 1.40	2.00	1.60 - 2.40	4.28	3.42 - 5.14		
	MONO# (10 ⁹ /L)	0.34	0.07 - 0.61	0.80	0.32 - 1.28	2.00	1.20 - 2.80		
	EO# (10 ⁹ /L)	0.28	0.20 - 0.36	0.71	0.50 - 0.92	2.07	1.55 - 2.59		
	BASO# (10 ⁹ /L)	1.86	1.30 - 2.42	4.59	3.21 - 5.97	12.85	9.64 - 16.06		
	NRBC# (10 ⁹ /L)	0.15	0.08 - 0.23	0.44	0.31 - 0.57	1.08	0.76 - 1.40		
	NRBC% (/100 WBC)	5.4	2.7 - 8.1	6.9	4.8 - 9.0	6.6	4.6 - 8.6		
	PLT-O (10 ⁹ /L)	59	32 - 86	222	189 - 255	501	426 - 576		
	RET# (10 ¹² /L)	0.1445	0.1012 - 0.1879	0.1262	0.0883 - 0.1641	0.0626	0.0438 - 0.0814		
	RET%	6.43	4.50 - 8.36	2.92	2.04 - 3.80	1.21	0.85 - 1.57		
	IRF (%)	27.1	7.1 - 47.1	25.7	5.7 - 45.7	19.9	0.0 - 39.9		
	IG #	0.32	0.29 - 0.35	0.79	0.59 - 0.99	2.17	1.52 - 2.82		
	IG %	10.7	7.5 - 13.9	11.6	8.7 - 14.5	12.3	7.4 - 17.2		
HPC #	0.013	0.011 - 0.015	0.034	0.031 - 0.037	0.096	0.086 - 0.106			
RET-HE (pg)	24.1	16.9 - 31.3	24.7	18.5 - 30.9	25.7	15.4 - 36.0			
IPF %	21.1	17.9 - 24.3	22.0	18.7 - 25.3	22.5	19.1 - 25.9			

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 XE-5000 ANALYZERS
CLOSED MODE ASSAY**

Expiration Date: 2010-04-26		Quality Control Data Due Date #1: 15-Mar-10			Quality Control Data Due Date #2: 26-Apr-10		
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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)	2.25	2.12 - 2.39	4.33	4.11 - 4.55	5.19	4.93 - 5.45
	HGB (g/dL)	5.6	5.3 - 5.9	11.9	11.3 - 12.5	15.9	15.1 - 16.7
	HCT (%)	16.7	15.5 - 17.9	34.5	32.4 - 36.6	44.9	42.2 - 47.6
	MCV (fL)	74.1	65.1 - 84.5	79.7	71.3 - 88.9	86.5	77.4 - 96.5
	MCH (pg)	24.9	22.1 - 28.1	27.5	24.9 - 30.4	30.6	27.7 - 33.9
	MCHC (g/dL)	33.5	29.5 - 38.2	34.6	30.9 - 38.5	35.4	31.7 - 39.6
	PLT (10 ⁹ /L)	54	27 - 81	211	180 - 243	462	393 - 532
	RDW-SD (fL)	44.4	40.0 - 48.8	44.8	40.3 - 49.3	45.5	41.0 - 50.1
	RDW-CV (%)	16.5	14.9 - 18.2	15.4	13.9 - 16.9	14.7	13.2 - 16.2
	MPV (fL)	8.9	8.2 - 9.6	9.2	8.6 - 9.8	9.5	8.9 - 10.1
	WBC (10 ⁹ /L)	2.86	2.43 - 3.29	6.50	5.91 - 7.08	17.25	15.87 - 18.63
	WBC-D (10 ⁹ /L)	2.72	2.31 - 3.12	6.04	5.50 - 6.59	16.38	15.07 - 17.69
	NEUT%	44.9	35.9 - 53.9	49.0	41.7 - 56.4	51.9	44.1 - 59.7
	LYMPH%	33.9	20.3 - 47.5	28.9	23.1 - 34.7	24.8	19.9 - 29.8
	MONO%	11.9	2.4 - 21.4	11.6	6.9 - 16.2	11.2	7.9 - 14.6
	EO%	9.3	6.5 - 12.1	10.5	7.3 - 13.6	12.0	9.0 - 15.0
	BASO%	63.7	44.6 - 82.8	65.7	46.0 - 85.4	71.5	53.6 - 89.4
	NEUT# (10 ⁹ /L)	1.29	1.03 - 1.54	3.18	2.71 - 3.66	8.96	7.61 - 10.30
	LYMPH# (10 ⁹ /L)	0.97	0.58 - 1.36	1.88	1.50 - 2.26	4.28	3.42 - 5.14
	MONO# (10 ⁹ /L)	0.34	0.07 - 0.61	0.75	0.30 - 1.20	1.94	1.16 - 2.72
	EO# (10 ⁹ /L)	0.27	0.19 - 0.35	0.68	0.48 - 0.89	2.07	1.55 - 2.59
	BASO# (10 ⁹ /L)	1.82	1.28 - 2.37	4.27	2.99 - 5.55	12.34	9.25 - 15.42
	NRBC# (10 ⁹ /L)	0.15	0.07 - 0.22	0.43	0.30 - 0.56	1.07	0.75 - 1.39
	NRBC% (/100 WBC)	5.3	2.7 - 8.0	6.8	4.7 - 8.8	6.5	4.6 - 8.5
	PLT-O (10 ⁹ /L)	56	28 - 84	218	185 - 250	491	417 - 565
	RET# (10 ¹² /L)	0.1445	0.1012 - 0.1879	0.1262	0.0883 - 0.1641	0.0626	0.0438 - 0.0814
	RET%	6.43	4.50 - 8.36	2.92	2.04 - 3.80	1.21	0.85 - 1.57
	IRF (%)	27.1	7.1 - 47.1	25.7	5.7 - 45.7	19.9	0.0 - 39.9
	IG #	0.32	0.29 - 0.35	0.79	0.59 - 0.99	2.17	1.52 - 2.82
	IG %	10.7	7.5 - 13.9	11.6	8.7 - 14.5	12.3	7.4 - 17.2
	HPC #	0.013	0.011 - 0.015	0.034	0.031 - 0.037	0.096	0.086 - 0.106
	RET-HE (pg)	24.1	16.9 - 31.3	24.7	18.5 - 30.9	25.7	15.4 - 36.0
	IPF %	21.1	17.9 - 24.3	22.0	18.7 - 25.3	22.5	19.1 - 25.9

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