



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

Expiration Date: 2012-02-27		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	
O P E N	RBC (10 ¹² /L)	2.28	2.19 - 2.37	4.30	4.17 - 4.43	5.27	5.11 - 5.43		
	HGB (g/dL)	5.9	5.7 - 6.1	12.2	11.8 - 12.6	16.5	16.0 - 17.0		
	HCT (%)	17.8	16.9 - 18.7	35.8	34.2 - 37.4	46.5	44.4 - 48.6		
	MCV (fL)	78.4	71.3 - 85.4	83.4	77.2 - 89.7	88.2	81.8 - 95.1		
	MCH (pg)	26.0	23.9 - 28.0	28.5	26.7 - 30.1	31.2	29.5 - 33.2		
	MCHC (g/dL)	33.1	30.3 - 36.3	34.2	31.6 - 36.8	35.4	32.9 - 38.3		
	PLT (10 ⁹ /L)	54	32 - 76	207	184 - 230	496	451 - 541		
	RDW-SD (fL)	44.7	40.2 - 49.2	44.1	39.7 - 48.5	45.2	40.7 - 49.7		
	RDW-CV (%)	15.5	14.0 - 17.1	14.5	13.1 - 16.0	14.1	12.7 - 15.5		
	MPV (fL)	9.2	8.5 - 9.9	9.6	9.0 - 10.2	9.8	9.2 - 10.4		
	WBC (10 ⁹ /L)	2.98	2.68 - 3.28	6.87	6.46 - 7.28	17.70	16.64 - 18.76		
	WBC-D (10 ⁹ /L)	2.83	2.55 - 3.11	6.44	6.05 - 6.83	16.75	15.75 - 17.76		
	NEUT%	45.5	36.4 - 54.6	49.0	41.7 - 56.4	51.9	44.1 - 59.7		
	LYMPH%	34.3	20.6 - 48.0	29.6	23.7 - 35.5	25.9	20.7 - 31.1		
	MONO%	10.8	2.2 - 19.4	10.8	6.5 - 15.1	11.0	7.7 - 14.3		
	EO%	9.4	6.6 - 12.2	10.6	7.4 - 13.8	11.2	8.4 - 14.0		
	BASO%	63.6	44.5 - 82.7	68.3	47.8 - 88.8	72.3	54.2 - 90.4		
	NEUT# (10 ⁹ /L)	1.36	1.09 - 1.63	3.37	2.86 - 3.88	9.18	7.80 - 10.56		
	LYMPH# (10 ⁹ /L)	1.02	0.61 - 1.43	2.03	1.62 - 2.44	4.57	3.66 - 5.48		
	MONO# (10 ⁹ /L)	0.32	0.06 - 0.58	0.75	0.30 - 1.20	1.95	1.17 - 2.73		
	EO# (10 ⁹ /L)	0.28	0.20 - 0.36	0.73	0.51 - 0.95	1.99	1.49 - 2.49		
	BASO# (10 ⁹ /L)	1.90	1.33 - 2.47	4.70	3.29 - 6.11	12.80	9.60 - 16.00		
	NRBC# (10 ⁹ /L)	0.14	0.07 - 0.21	0.43	0.30 - 0.56	1.11	0.78 - 1.44		
	NRBC% (/100 WBC)	5.1	2.6 - 7.7	6.7	4.7 - 8.7	6.7	4.7 - 8.7		
	PLT-O (10 ⁹ /L)	58	32 - 84	214	182 - 246	503	428 - 578		
	RET# (10 ¹² /L)	0.1470	0.1029 - 0.1911	0.1130	0.0791 - 0.1469	0.0594	0.0416 - 0.0772		
	RET%	6.46	4.52 - 8.40	2.63	1.84 - 3.42	1.13	0.79 - 1.47		
	IRF (%)	33.2	13.2 - 53.2	32.6	12.6 - 52.6	23.8	3.8 - 43.8		
	IG #	0.32	0.29 - 0.35	0.78	0.59 - 0.98	2.15	1.51 - 2.80		
	IG %	10.8	7.6 - 14.0	11.4	8.6 - 14.3	12.1	7.3 - 16.9		
HPC #	0.014	0.012 - 0.016	0.035	0.032 - 0.039	0.107	0.096 - 0.118			
RET-HE (pg)	24.9	17.4 - 32.4	25.5	19.1 - 31.9	26.5	15.9 - 37.1			
IPF %	22.1	18.8 - 25.4	22.1	18.8 - 25.4	21.7	18.4 - 25.0			

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: 2012-02-27		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				
CLOSED	PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
	RBC (10 ¹² /L)	2.28	2.14	- 2.42	4.30	4.09	- 4.52	5.27	5.01	- 5.53
	HGB (g/dL)	5.9	5.5	- 6.3	12.2	11.6	- 12.8	16.5	15.7	- 17.3
	HCT (%)	17.8	16.6	- 19.0	35.8	33.7	- 37.9	46.5	43.7	- 49.3
	MCV (fL)	78.4	68.5	- 88.9	83.4	74.5	- 92.9	88.2	79.0	- 98.5
	MCH (pg)	26.0	22.9	- 29.2	28.5	25.7	- 31.4	31.2	28.3	- 34.6
	MCHC (g/dL)	33.1	29.1	- 37.8	34.2	30.5	- 38.1	35.4	31.8	- 39.6
	PLT (10 ⁹ /L)	54	27	- 81	203	172	- 233	471	401	- 542
	RDW-SD (fL)	44.7	40.2	- 49.2	44.1	39.7	- 48.5	45.2	40.7	- 49.7
	RDW-CV (%)	15.5	14.0	- 17.1	14.5	13.1	- 16.0	14.1	12.7	- 15.5
	MPV (fL)	9.2	8.5	- 9.9	9.6	9.0	- 10.2	9.8	9.2	- 10.4
	WBC (10 ⁹ /L)	2.89	2.46	- 3.32	6.46	5.88	- 7.04	17.35	15.96	- 18.73
	WBC-D (10 ⁹ /L)	2.75	2.33	- 3.16	6.25	5.68	- 6.81	16.25	14.95	- 17.55
	NEUT%	45.7	36.5	- 54.8	47.9	40.7	- 55.1	52.4	44.5	- 60.3
	LYMPH%	34.2	20.5	- 47.9	30.8	24.6	- 37.0	26.3	21.1	- 31.6
	MONO%	10.5	2.1	- 18.9	10.5	6.3	- 14.6	10.1	7.1	- 13.2
	EO%	9.6	6.7	- 12.5	10.9	7.6	- 14.1	11.1	8.3	- 13.9
	BASO%	65.1	45.6	- 84.6	69.9	48.9	- 90.8	72.3	54.2	- 90.4
	NEUT# (10 ⁹ /L)	1.32	1.06	- 1.58	3.09	2.63	- 3.56	9.09	7.73	- 10.45
	LYMPH# (10 ⁹ /L)	0.99	0.59	- 1.39	1.99	1.59	- 2.39	4.57	3.66	- 5.48
	MONO# (10 ⁹ /L)	0.30	0.06	- 0.55	0.68	0.27	- 1.08	1.76	1.05	- 2.46
	EO# (10 ⁹ /L)	0.28	0.19	- 0.36	0.70	0.49	- 0.91	1.93	1.45	- 2.41
	BASO# (10 ⁹ /L)	1.88	1.32	- 2.45	4.51	3.16	- 5.87	12.54	9.41	- 15.68
	NRBC# (10 ⁹ /L)	0.14	0.07	- 0.21	0.41	0.29	- 0.54	1.11	0.78	- 1.44
	NRBC% (/100 WBC)	5.1	2.6	- 7.7	6.7	4.7	- 8.7	6.7	4.7	- 8.7
	PLT-O (10 ⁹ /L)	57	29	- 86	212	180	- 244	488	415	- 561
	RET# (10 ¹² /L)	0.1470	0.1029	- 0.1911	0.1130	0.0791	- 0.1469	0.0594	0.0416	- 0.0772
	RET%	6.46	4.52	- 8.40	2.63	1.84	- 3.42	1.13	0.79	- 1.47
IRF (%)	33.2	13.2	- 53.2	32.6	12.6	- 52.6	23.8	3.8	- 43.8	
IG #	0.32	0.29	- 0.35	0.75	0.56	- 0.94	2.09	1.46	- 2.71	
IG %	10.8	7.6	- 14.0	11.4	8.6	- 14.3	12.1	7.3	- 16.9	
HPC #	0.014	0.012	- 0.016	0.035	0.032	- 0.039	0.107	0.096	- 0.118	
RET-HE (pg)	24.9	17.4	- 32.4	25.5	19.1	- 31.9	26.5	15.9	- 37.1	
IPF %	22.1	18.8	- 25.4	22.1	18.8	- 25.4	21.7	18.4	- 25.0	

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