



**HEMATOLOGY CONTROL FOR SYSMEX XE-5000 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)	2.30	2.21 - 2.39	4.35	4.22 - 4.48	5.26	5.10 - 5.42
	HGB (g/dL)	5.8	5.6 - 6.0	12.2	11.8 - 12.6	16.3	15.8 - 16.8
	HCT (%)	17.4	16.5 - 18.3	35.4	33.8 - 37.0	46.3	44.2 - 48.4
	MCV (fL)	75.9	69.1 - 82.7	81.3	75.5 - 87.7	88.1	81.6 - 94.8
	MCH (pg)	25.3	23.3 - 27.3	28.0	26.4 - 29.8	31.0	29.2 - 32.9
	MCHC (g/dL)	33.6	30.5 - 36.5	34.8	32.0 - 37.2	35.6	32.7 - 38.0
	PLT (10 ⁹ /L)	54	32 - 76	217	193 - 241	506	460 - 552
	RDW-SD (fL)	43.9	39.5 - 48.3	44.7	40.2 - 49.2	46.5	41.9 - 51.2
	RDW-CV (%)	16.1	14.5 - 17.7	15.3	13.8 - 16.8	14.7	13.2 - 16.2
	MPV (fL)	8.9	8.2 - 9.6	9.3	8.7 - 9.9	9.5	8.9 - 10.1
	WBC (10 ⁹ /L)	3.02	2.72 - 3.32	6.88	6.47 - 7.29	17.63	16.57 - 18.69
	WBC-D (10 ⁹ /L)	2.87	2.58 - 3.16	6.45	6.06 - 6.84	17.13	16.10 - 18.16
	NEUT%	45.7	36.6 - 54.8	49.4	42.0 - 56.8	53.6	45.6 - 61.6
	LYMPH%	33.6	20.2 - 47.0	29.0	23.2 - 34.8	23.8	19.0 - 28.6
	MONO%	10.7	2.1 - 19.3	11.2	6.7 - 15.7	11.4	8.0 - 14.8
	EO%	9.9	6.9 - 12.9	10.4	7.3 - 13.5	11.2	8.4 - 14.0
	BASO%	63.4	44.4 - 82.4	68.2	47.7 - 88.7	73.2	54.9 - 91.5
	NEUT# (10 ⁹ /L)	1.38	1.10 - 1.66	3.40	2.89 - 3.91	9.44	8.02 - 10.86
	LYMPH# (10 ⁹ /L)	1.02	0.61 - 1.43	2.00	1.60 - 2.40	4.20	3.36 - 5.04
	MONO# (10 ⁹ /L)	0.32	0.06 - 0.58	0.77	0.31 - 1.23	2.02	1.21 - 2.83
	EO# (10 ⁹ /L)	0.30	0.21 - 0.39	0.72	0.50 - 0.94	1.97	1.48 - 2.46
	BASO# (10 ⁹ /L)	1.92	1.34 - 2.50	4.69	3.28 - 6.10	12.90	9.68 - 16.13
	NRBC# (10 ⁹ /L)	0.16	0.08 - 0.24	0.43	0.30 - 0.56	1.11	0.78 - 1.44
	NRBC% (/100 WBC)	5.7	2.9 - 8.6	6.6	4.6 - 8.6	6.7	4.7 - 8.7
	PLT-O (10 ⁹ /L)	59	32 - 86	218	185 - 251	512	435 - 589
	RET# (10 ¹² /L)	0.1536	0.1075 - 0.1997	0.1226	0.0858 - 0.1594	0.0588	0.0412 - 0.0764
	RET%	6.69	4.68 - 8.70	2.82	1.97 - 3.67	1.12	0.78 - 1.46
	IRF (%)	25.6	5.6 - 45.6	21.8	1.8 - 41.8	18.3	0.0 - 38.3
	IG #	0.33	0.30 - 0.36	0.80	0.60 - 1.00	2.21	1.55 - 2.87
	IG %	10.9	7.6 - 14.2	11.6	8.7 - 14.5	12.5	7.5 - 17.5
HPC #	0.014	0.012 - 0.016	0.035	0.032 - 0.039	0.099	0.089 - 0.109	
RET-HE (pg)	24.2	16.9 - 31.5	24.8	18.6 - 31.0	25.9	15.5 - 36.3	
IPF %	21.8	18.5 - 25.1	21.8	18.5 - 25.1	22.3	19.0 - 25.6	

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		2010-08-16		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		
CLOSED	RBC (10 ¹² /L)	2.30	2.16	- 2.44	4.35	4.13	- 4.57	5.26	5.00	- 5.52	
	HGB (g/dL)	5.8	5.5	- 6.1	12.2	11.6	- 12.8	16.3	15.5	- 17.1	
	HCT (%)	17.4	16.2	- 18.6	35.4	33.3	- 37.5	46.3	43.5	- 49.1	
	MCV (fL)	75.9	66.4	- 86.1	81.3	72.9	- 90.8	88.1	78.8	- 98.2	
	MCH (pg)	25.3	22.4	- 28.4	28.0	25.4	- 31.0	31.0	28.0	- 34.3	
	MCHC (g/dL)	33.6	29.3	- 38.0	34.8	30.9	- 38.5	35.6	31.6	- 39.3	
	PLT (10 ⁹ /L)	53	26	- 79	208	177	- 240	471	400	- 541	
	RDW-SD (fL)	43.9	39.5	- 48.3	44.7	40.2	- 49.2	46.5	41.9	- 51.2	
	RDW-CV (%)	16.1	14.5	- 17.7	15.3	13.8	- 16.8	14.7	13.2	- 16.2	
	MPV (fL)	8.9	8.2	- 9.6	9.3	8.7	- 9.9	9.5	8.9	- 10.1	
	WBC (10 ⁹ /L)	2.93	2.49	- 3.37	6.54	5.95	- 7.12	17.28	15.90	- 18.66	
	WBC-D (10 ⁹ /L)	2.78	2.37	- 3.20	6.13	5.58	- 6.68	16.79	15.44	- 18.13	
	NEUT%	45.6	36.5	- 54.7	49.6	42.1	- 57.0	52.9	45.0	- 60.9	
	LYMPH%	33.8	20.3	- 47.3	28.8	23.0	- 34.5	24.3	19.4	- 29.2	
	MONO%	10.9	2.2	- 19.7	11.1	6.6	- 15.5	11.3	7.9	- 14.7	
	EO%	9.7	6.8	- 12.6	10.6	7.4	- 13.7	11.4	8.6	- 14.3	
	BASO%	64.2	45.0	- 83.5	66.7	46.7	- 86.8	71.7	53.8	- 89.6	
	NEUT# (10 ⁹ /L)	1.34	1.07	- 1.60	3.24	2.75	- 3.73	9.15	7.78	- 10.52	
	LYMPH# (10 ⁹ /L)	0.99	0.59	- 1.39	1.88	1.50	- 2.26	4.20	3.36	- 5.04	
	MONO# (10 ⁹ /L)	0.32	0.06	- 0.58	0.72	0.29	- 1.16	1.96	1.18	- 2.74	
	EO# (10 ⁹ /L)	0.29	0.20	- 0.37	0.69	0.48	- 0.90	1.97	1.48	- 2.46	
	BASO# (10 ⁹ /L)	1.88	1.32	- 2.45	4.36	3.05	- 5.67	12.38	9.29	- 15.48	
	NRBC# (10 ⁹ /L)	0.16	0.08	- 0.24	0.42	0.29	- 0.55	1.10	0.77	- 1.43	
	NRBC% (/100 WBC)	5.6	2.8	- 8.5	6.5	4.5	- 8.4	6.6	4.6	- 8.6	
	PLT-O (10 ⁹ /L)	56	28	- 84	214	182	- 246	502	426	- 577	
	RET# (10 ¹² /L)	0.1536	0.1075	- 0.1997	0.1226	0.0858	- 0.1594	0.0588	0.0412	- 0.0764	
	RET%	6.69	4.68	- 8.70	2.82	1.97	- 3.67	1.12	0.78	- 1.46	
	IRF (%)	25.6	5.6	- 45.6	21.8	1.8	- 41.8	18.3	0.0	- 38.3	
IG #	0.33	0.30	- 0.36	0.80	0.60	- 1.00	2.21	1.55	- 2.87		
IG %	10.9	7.6	- 14.2	11.6	8.7	- 14.5	12.5	7.5	- 17.5		
HPC #	0.014	0.012	- 0.016	0.035	0.032	- 0.039	0.099	0.089	- 0.109		
RET-HE (pg)	24.2	16.9	- 31.5	24.8	18.6	- 31.0	25.9	15.5	- 36.3		
IPF %	21.8	18.5	- 25.1	21.8	18.5	- 25.1	22.3	19.0	- 25.6		

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