



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

Expiration Date: 2010-01-04		Quality Control Data Due Date #1: 24-Nov-09			Quality Control Data Due Date #2: 4-Jan-10				
Lot Number:		92870810		92870811		92870812			
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)	2.33	2.24 - 2.42	4.42	4.29 - 4.55	5.36	5.20 - 5.52		
	HGB (g/dL)	5.8	5.6 - 6.0	12.3	11.9 - 12.7	15.9	15.4 - 16.4		
	HCT (%)	17.5	16.6 - 18.4	35.8	34.2 - 37.4	45.5	43.5 - 47.5		
	MCV (fL)	75.3	68.6 - 82.1	81.0	75.1 - 87.3	84.9	78.7 - 91.5		
	MCH (pg)	25.0	23.0 - 27.0	27.8	26.2 - 29.5	29.7	27.9 - 31.5		
	MCHC (g/dL)	33.2	30.3 - 36.3	34.3	31.9 - 37.1	35.0	32.4 - 37.7		
	PLT (10 ⁹ /L)	53	32 - 74	207	184 - 230	505	460 - 550		
	RDW-SD (fL)	46.6	41.9 - 51.3	44.1	39.7 - 48.5	44.9	40.4 - 49.4		
	RDW-CV (%)	17.0	15.3 - 18.7	15.2	13.7 - 16.7	14.8	13.3 - 16.3		
	MPV (fL)	9.3	8.6 - 10.0	9.6	9.0 - 10.2	9.8	9.2 - 10.4		
	WBC (10 ⁹ /L)	3.10	2.79 - 3.41	7.32	6.88 - 7.76	19.21	18.06 - 20.36		
	WBC-D (10 ⁹ /L)	2.98	2.68 - 3.28	6.82	6.41 - 7.23	18.32	17.22 - 19.42		
	NEUT%	42.1	33.7 - 50.5	46.6	39.6 - 53.6	52.7	44.8 - 60.6		
	LYMPH%	35.6	21.4 - 49.8	31.9	25.5 - 38.3	23.8	19.0 - 28.6		
	MONO%	13.0	2.6 - 23.4	11.1	6.7 - 15.5	12.2	8.5 - 15.9		
	EO%	9.3	6.5 - 12.1	10.4	7.3 - 13.5	11.3	8.5 - 14.1		
	BASO%	61.1	42.8 - 79.4	65.9	46.1 - 85.7	74.3	55.7 - 92.9		
	NEUT# (10 ⁹ /L)	1.30	1.04 - 1.56	3.42	2.91 - 3.93	10.13	8.61 - 11.65		
	LYMPH# (10 ⁹ /L)	1.10	0.66 - 1.54	2.34	1.87 - 2.81	4.58	3.66 - 5.50		
	MONO# (10 ⁹ /L)	0.40	0.08 - 0.72	0.82	0.33 - 1.31	2.34	1.40 - 3.28		
	EO# (10 ⁹ /L)	0.29	0.20 - 0.38	0.76	0.53 - 0.99	2.17	1.63 - 2.71		
	BASO# (10 ⁹ /L)	1.89	1.32 - 2.46	4.83	3.38 - 6.28	14.27	10.70 - 17.84		
	NRBC# (10 ⁹ /L)	0.15	0.08 - 0.23	0.43	0.30 - 0.56	1.09	0.76 - 1.42		
	NRBC% (/100 WBC)	5.1	2.6 - 7.7	6.3	4.4 - 8.2	6.0	4.2 - 7.8		
	PLT-O (10 ⁹ /L)	58	32 - 84	208	177 - 239	508	432 - 584		
	RET# (10 ¹² /L)	0.1426	0.0998 - 0.1854	0.1225	0.0858 - 0.1593	0.0622	0.0435 - 0.0809		
	RET%	6.12	4.28 - 7.96	2.77	1.94 - 3.60	1.16	0.81 - 1.51		
	IRF (%)	20.6	0.6 - 40.6	18.9	0.0 - 38.9	15.9	0.0 - 35.9		
	IG #	0.31	0.28 - 0.34	0.81	0.61 - 1.01	2.39	1.67 - 3.11		
	IG %	10.00	7.00 - 13.00	11.10	8.33 - 13.88	12.40	7.44 - 17.36		
HPC #	0.014	0.012 - 0.016	0.036	0.032 - 0.040	0.107	0.096 - 0.118			
RET-HE (pg)	24.1	16.9 - 31.3	24.7	18.5 - 30.9	25.4	15.2 - 35.6			
IPF %	21.4	18.2 - 24.6	21.3	18.1 - 24.5	20.9	17.8 - 24.0			

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: 2010-01-04		Quality Control Data Due Date #1: 24-Nov-09			Quality Control Data Due Date #2: 4-Jan-10		
Lot Number:		92870810		92870811		92870812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
C L O S E D	RBC (10 ¹² /L)	2.33	2.19 - 2.47	4.42	4.20 - 4.64	5.36	5.09 - 5.63
	HGB (g/dL)	5.8	5.5 - 6.1	12.3	11.7 - 12.9	15.9	15.1 - 16.7
	HCT (%)	17.5	16.3 - 18.7	35.8	33.7 - 37.9	45.5	42.8 - 48.2
	MCV (fL)	75.3	65.9 - 85.5	81.0	72.5 - 90.4	84.9	76.0 - 94.7
	MCH (pg)	25.0	22.1 - 28.1	27.8	25.2 - 30.8	29.7	26.8 - 32.8
	MCHC (g/dL)	33.2	29.1 - 37.8	34.3	30.8 - 38.4	35.0	31.3 - 39.0
	PLT (10 ⁹ /L)	52	26 - 78	199	169 - 229	470	399 - 540
	RDW-SD (fL)	46.6	41.9 - 51.3	44.1	39.7 - 48.5	44.9	40.4 - 49.4
	RDW-CV (%)	17.0	15.3 - 18.7	15.2	13.7 - 16.7	14.8	13.3 - 16.3
	MPV (fL)	9.3	8.6 - 10.0	9.6	9.0 - 10.2	9.8	9.2 - 10.4
	WBC (10 ⁹ /L)	3.01	2.56 - 3.46	6.95	6.33 - 7.58	18.83	17.32 - 20.33
	WBC-D (10 ⁹ /L)	2.89	2.46 - 3.32	6.48	5.90 - 7.06	17.95	16.52 - 19.39
	NEUT%	42.1	33.6 - 50.5	46.8	39.8 - 53.8	52.1	44.3 - 59.9
	LYMPH%	35.5	21.3 - 49.7	31.6	25.3 - 38.0	24.3	19.5 - 29.2
	MONO%	13.3	2.7 - 23.9	11.1	6.7 - 15.5	12.1	8.4 - 15.7
	EO%	9.2	6.4 - 11.9	10.5	7.3 - 13.6	11.5	8.6 - 14.4
	BASO%	61.6	43.1 - 80.1	64.6	45.2 - 84.0	72.8	54.6 - 91.0
	NEUT# (10 ⁹ /L)	1.26	1.01 - 1.52	3.25	2.77 - 3.74	9.81	8.34 - 11.28
	LYMPH# (10 ⁹ /L)	1.07	0.64 - 1.49	2.20	1.76 - 2.64	4.58	3.66 - 5.50
	MONO# (10 ⁹ /L)	0.40	0.08 - 0.72	0.77	0.31 - 1.23	2.27	1.36 - 3.18
	EO# (10 ⁹ /L)	0.28	0.19 - 0.36	0.73	0.51 - 0.95	2.17	1.63 - 2.71
	BASO# (10 ⁹ /L)	1.85	1.30 - 2.41	4.49	3.14 - 5.84	13.70	10.27 - 17.12
	NRBC# (10 ⁹ /L)	0.15	0.07 - 0.22	0.42	0.29 - 0.55	1.08	0.76 - 1.40
	NRBC% (/100 WBC)	5.0	2.5 - 7.6	6.2	4.3 - 8.0	5.9	4.2 - 7.7
	PLT-O (10 ⁹ /L)	55	28 - 83	204	173 - 234	498	423 - 573
	RET# (10 ¹² /L)	0.1426	0.0998 - 0.1854	0.1225	0.0858 - 0.1593	0.0622	0.0435 - 0.0809
	RET%	6.12	4.28 - 7.96	2.77	1.94 - 3.60	1.16	0.81 - 1.51
	IRF (%)	20.6	0.6 - 40.6	18.9	0.0 - 38.9	15.9	0.0 - 35.9
	IG #	0.31	0.28 - 0.34	0.81	0.61 - 1.01	2.39	1.67 - 3.11
	IG %	10.00	7.00 - 13.00	11.10	8.33 - 13.88	12.40	7.44 - 17.36
HPC #	0.014	0.012 - 0.016	0.036	0.032 - 0.040	0.107	0.096 - 0.118	
RET-HE (pg)	24.1	16.9 - 31.3	24.7	18.5 - 30.9	25.4	15.2 - 35.6	
IPF %	21.4	18.2 - 24.6	21.3	18.1 - 24.5	20.9	17.8 - 24.0	

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