



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

Expiration Date: 2012-04-23		Quality Control Data Due Date #1: 12-Mar-12			Quality Control Data Due Date #2: 23-Apr-12		
Lot Number:		20330810		20330811		20330812	
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)	2.27	2.18 - 2.36	4.31	4.18 - 4.44	5.25	5.09 - 5.41
	HGB (g/dL)	5.6	5.4 - 5.8	11.7	11.3 - 12.1	16.3	15.8 - 16.8
	HCT (%)	17.0	16.2 - 17.9	34.4	32.9 - 35.9	46.1	44.0 - 48.2
	MCV (fL)	74.8	68.4 - 81.9	80.0	74.0 - 86.0	87.8	81.4 - 94.6
	MCH (pg)	24.8	22.8 - 26.7	27.2	25.6 - 28.8	31.0	29.2 - 33.0
	MCHC (g/dL)	33.1	30.1 - 36.1	34.0	31.6 - 36.7	35.4	32.8 - 38.1
	PLT (10 ⁹ /L)	51	31 - 71	212	189 - 235	498	453 - 543
	RDW-SD (fL)	42.8	38.5 - 47.1	43.9	39.5 - 48.3	44.6	40.1 - 49.1
	RDW-CV (%)	15.8	14.2 - 17.4	15.1	13.6 - 16.6	14.0	12.6 - 15.4
	MPV (fL)	9.0	8.3 - 9.7	9.4	8.8 - 10.0	9.6	9.0 - 10.2
	WBC (10 ⁹ /L)	3.00	2.70 - 3.30	7.08	6.66 - 7.50	17.89	16.82 - 18.96
	WBC-D (10 ⁹ /L)	2.86	2.57 - 3.15	6.60	6.20 - 7.00	16.90	15.89 - 17.91
	NEUT%	44.8	35.8 - 53.8	47.5	40.4 - 54.6	52.5	44.6 - 60.4
	LYMPH%	34.2	20.5 - 47.9	31.6	25.3 - 37.9	25.6	20.5 - 30.7
	MONO%	11.4	2.3 - 20.5	10.8	6.5 - 15.1	10.6	7.4 - 13.8
	EO%	9.5	6.7 - 12.4	10.1	7.1 - 13.1	11.2	8.4 - 14.0
	BASO%	64.5	45.2 - 83.9	67.1	47.0 - 87.2	72.3	54.2 - 90.4
	NEUT# (10 ⁹ /L)	1.35	1.08 - 1.62	3.37	2.86 - 3.88	9.41	8.00 - 10.82
	LYMPH# (10 ⁹ /L)	1.03	0.62 - 1.44	2.24	1.79 - 2.69	4.58	3.66 - 5.50
	MONO# (10 ⁹ /L)	0.34	0.07 - 0.61	0.76	0.30 - 1.22	1.90	1.14 - 2.66
	EO# (10 ⁹ /L)	0.29	0.20 - 0.38	0.71	0.50 - 0.92	2.01	1.51 - 2.51
	BASO# (10 ⁹ /L)	1.94	1.36 - 2.52	4.75	3.33 - 6.18	12.94	9.71 - 16.18
	NRBC# (10 ⁹ /L)	0.15	0.08 - 0.23	0.46	0.32 - 0.60	1.13	0.79 - 1.47
	NRBC% (/100 WBC)	5.1	2.6 - 7.7	6.9	4.8 - 9.0	6.7	4.7 - 8.7
	PLT-O (10 ⁹ /L)	58	32 - 84	221	188 - 254	513	436 - 590
	RET# (10 ¹² /L)	0.1354	0.0948 - 0.1760	0.1222	0.0855 - 0.1589	0.0600	0.0420 - 0.0780
	RET%	5.96	4.17 - 7.75	2.84	1.99 - 3.69	1.14	0.80 - 1.48
	IRF (%)	30.0	10.0 - 50.0	27.4	7.4 - 47.4	21.2	1.2 - 41.2
	IG #	0.32	0.29 - 0.35	0.79	0.59 - 0.99	2.20	1.54 - 2.86
	IG %	10.6	7.4 - 13.8	11.1	8.3 - 13.9	12.3	7.4 - 17.2
HPC #	0.014	0.012 - 0.016	0.034	0.031 - 0.037	0.106	0.095 - 0.117	
RET-HE (pg)	23.9	16.7 - 31.1	24.6	18.5 - 30.8	25.5	15.3 - 35.7	
IPF %	21.5	18.3 - 24.7	21.9	18.6 - 25.2	21.9	18.6 - 25.2	

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: 2012-04-23		Quality Control Data Due Date #1: 12-Mar-12			Quality Control Data Due Date #2: 23-Apr-12				
Lot Number:		20330810		20330811		20330812			
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)	2.27	2.13 - 2.41	4.31	4.09 - 4.53	5.25	4.99 - 5.51		
	HGB (g/dL)	5.6	5.3 - 5.9	11.7	11.1 - 12.3	16.3	15.5 - 17.1		
	HCT (%)	17.0	15.8 - 18.2	34.4	32.3 - 36.5	46.1	43.3 - 48.9		
	MCV (fL)	74.8	65.7 - 85.2	80.0	71.5 - 89.1	87.8	78.6 - 98.0		
	MCH (pg)	24.8	21.9 - 27.8	27.2	24.6 - 30.0	31.0	28.1 - 34.3		
	MCHC (g/dL)	33.1	28.9 - 37.5	34.0	30.5 - 38.0	35.4	31.7 - 39.5		
	PLT (10 ⁹ /L)	51	26 - 77	208	177 - 239	473	402 - 544		
	RDW-SD (fL)	42.8	38.5 - 47.1	43.9	39.5 - 48.3	44.6	40.1 - 49.1		
	RDW-CV (%)	15.8	14.2 - 17.4	15.1	13.6 - 16.6	14.0	12.6 - 15.4		
	MPV (fL)	9.0	8.3 - 9.7	9.4	8.8 - 10.0	9.6	9.0 - 10.2		
	WBC (10 ⁹ /L)	2.91	2.47 - 3.35	6.66	6.06 - 7.26	17.53	16.13 - 18.93		
	WBC-D (10 ⁹ /L)	2.77	2.35 - 3.19	6.40	5.82 - 6.98	16.39	15.08 - 17.70		
	NEUT%	44.6	35.7 - 53.5	46.6	39.6 - 53.6	53.0	45.1 - 61.0		
	LYMPH%	34.4	20.6 - 48.2	33.0	26.4 - 39.6	26.1	20.9 - 31.3		
	MONO%	11.0	2.2 - 19.8	10.2	6.1 - 14.3	9.8	6.9 - 12.7		
	EO%	10.0	7.0 - 13.0	10.2	7.1 - 13.3	11.1	8.3 - 13.9		
	BASO%	66.0	46.2 - 85.8	68.5	48.0 - 89.1	72.3	54.2 - 90.4		
	NEUT# (10 ⁹ /L)	1.30	1.04 - 1.56	3.10	2.64 - 3.57	9.29	7.90 - 10.68		
	LYMPH# (10 ⁹ /L)	1.00	0.60 - 1.40	2.20	1.76 - 2.64	4.58	3.66 - 5.50		
	MONO# (10 ⁹ /L)	0.32	0.06 - 0.58	0.68	0.27 - 1.09	1.71	1.03 - 2.39		
	EO# (10 ⁹ /L)	0.29	0.20 - 0.38	0.68	0.48 - 0.88	1.95	1.46 - 2.44		
	BASO# (10 ⁹ /L)	1.92	1.34 - 2.50	4.56	3.19 - 5.93	12.68	9.51 - 15.85		
	NRBC# (10 ⁹ /L)	0.15	0.08 - 0.23	0.44	0.31 - 0.57	1.13	0.79 - 1.47		
	NRBC% (/100 WBC)	5.1	2.6 - 7.7	6.9	4.8 - 9.0	6.7	4.7 - 8.7		
	PLT-O (10 ⁹ /L)	57	29 - 86	219	186 - 252	498	423 - 573		
	RET# (10 ¹² /L)	0.1354	0.0948 - 0.1760	0.1222	0.0855 - 0.1589	0.0600	0.0420 - 0.0780		
	RET%	5.96	4.17 - 7.75	2.84	1.99 - 3.69	1.14	0.80 - 1.48		
	IRF (%)	30.0	10.0 - 50.0	27.4	7.4 - 47.4	21.2	1.2 - 41.2		
	IG #	0.32	0.29 - 0.35	0.76	0.57 - 0.95	2.13	1.49 - 2.77		
	IG %	10.6	7.4 - 13.8	11.1	8.3 - 13.9	12.3	7.4 - 17.2		
	HPC #	0.014	0.012 - 0.016	0.034	0.031 - 0.037	0.106	0.095 - 0.117		
	RET-HE (pg)	23.9	16.7 - 31.1	24.6	18.5 - 30.8	25.5	15.3 - 35.7		
	IPF %	21.5	18.3 - 24.7	21.9	18.6 - 25.2	21.9	18.6 - 25.2		

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