



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

Expiration Date: <b>2012-01-02</b>		Quality Control Data Due Date #1: <b>21-Nov-11</b>			Quality Control Data Due Date #2: <b>02-Jan-12</b>				
Lot Number:		<b>12850810</b>		<b>12850811</b>		<b>12850812</b>			
Control:		<b>L1:Level 1</b>		<b>L2:Level 2</b>		<b>L3:Level 3</b>			
<b>PARAMETERS</b>	<b>MEAN</b>	<b>EXPECTED RANGE</b>		<b>MEAN</b>	<b>EXPECTED RANGE</b>		<b>MEAN</b>	<b>EXPECTED RANGE</b>	
O P E N	RBC (10 <sup>12</sup> /L)	2.31	2.22 - 2.40	4.33	4.20 - 4.46	5.24	5.08 - 5.40		
	HGB (g/dL)	5.7	5.5 - 5.9	12.1	11.7 - 12.5	16.4	15.9 - 16.9		
	HCT (%)	17.4	16.5 - 18.3	35.1	33.5 - 36.7	46.4	44.3 - 48.5		
	MCV (fL)	75.4	68.8 - 82.4	80.9	75.2 - 87.3	88.6	82.1 - 95.4		
	MCH (pg)	24.8	22.8 - 26.7	27.8	26.3 - 29.7	31.4	29.5 - 33.2		
	MCHC (g/dL)	32.9	30.0 - 35.9	34.4	32.0 - 37.2	35.4	32.8 - 38.1		
	PLT (10 <sup>9</sup> /L)	54	32 - 76	208	185 - 231	496	451 - 541		
	RDW-SD (fL)	44.7	40.2 - 49.2	43.9	39.5 - 48.3	45.2	40.7 - 49.7		
	RDW-CV (%)	16.3	14.7 - 17.9	15.0	13.5 - 16.5	14.1	12.7 - 15.5		
	MPV (fL)	9.2	8.5 - 9.9	9.5	8.9 - 10.1	9.7	9.1 - 10.3		
	WBC (10 <sup>9</sup> /L)	3.07	2.76 - 3.38	7.32	6.88 - 7.76	17.90	16.83 - 18.97		
	WBC-D (10 <sup>9</sup> /L)	2.97	2.67 - 3.27	6.91	6.50 - 7.32	17.57	16.52 - 18.62		
	NEUT%	43.1	34.5 - 51.7	48.7	41.4 - 56.0	53.8	45.7 - 61.9		
	LYMPH%	36.7	22.0 - 51.4	30.3	24.2 - 36.4	23.9	19.1 - 28.7		
	MONO%	10.9	2.2 - 19.6	10.6	6.4 - 14.8	10.7	7.5 - 13.9		
	EO%	9.3	6.5 - 12.1	10.4	7.3 - 13.5	11.6	8.7 - 14.5		
	BASO%	62.4	43.7 - 81.1	67.7	47.4 - 88.0	73.5	55.1 - 91.9		
	NEUT# (10 <sup>9</sup> /L)	1.33	1.06 - 1.60	3.56	3.03 - 4.09	9.63	8.19 - 11.07		
	LYMPH# (10 <sup>9</sup> /L)	1.13	0.68 - 1.58	2.22	1.78 - 2.66	4.27	3.42 - 5.12		
	MONO# (10 <sup>9</sup> /L)	0.34	0.07 - 0.61	0.78	0.31 - 1.25	1.92	1.15 - 2.69		
	EO# (10 <sup>9</sup> /L)	0.29	0.20 - 0.38	0.76	0.53 - 0.99	2.08	1.56 - 2.60		
	BASO# (10 <sup>9</sup> /L)	1.92	1.34 - 2.50	4.96	3.47 - 6.45	13.16	9.87 - 16.45		
	NRBC# (10 <sup>9</sup> /L)	0.15	0.08 - 0.23	0.43	0.30 - 0.56	1.07	0.75 - 1.39		
	NRBC% (/100 WBC)	5.3	2.7 - 8.0	6.2	4.3 - 8.1	6.4	4.5 - 8.3		
	PLT-O (10 <sup>9</sup> /L)	59	32 - 86	207	176 - 238	503	428 - 578		
	RET# (10 <sup>12</sup> /L)	0.1406	0.0984 - 0.1828	0.1128	0.0790 - 0.1466	0.0605	0.0424 - 0.0787		
	RET%	6.09	4.26 - 7.92	2.60	1.82 - 3.38	1.16	0.81 - 1.51		
	IRF (%)	32.8	12.8 - 52.8	30.7	10.7 - 50.7	24.8	4.8 - 44.8		
	IG #	0.31	0.28 - 0.34	0.83	0.62 - 1.04	2.29	1.60 - 2.98		
	IG %	10.1	7.1 - 13.1	11.3	8.5 - 14.1	12.8	7.7 - 17.9		
HPC #	0.015	0.013 - 0.017	0.038	0.034 - 0.042	0.105	0.095 - 0.116			
RET-HE (pg)	24.2	16.9 - 31.5	24.8	18.6 - 31.0	25.5	15.3 - 35.7			
IPF %	21.8	18.5 - 25.1	22.2	18.9 - 25.5	22.0	18.7 - 25.3			

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: <b>2012-01-02</b>		Quality Control Data Due Date #1: <b>21-Nov-11</b>			Quality Control Data Due Date #2: <b>02-Jan-12</b>		
Lot Number:		<b>12850810</b>		<b>12850811</b>		<b>12850812</b>	
Control:		<b>L1:Level 1</b>		<b>L2:Level 2</b>		<b>L3:Level 3</b>	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
CLOSED	RBC (10 <sup>12</sup> /L)	2.31	2.17 - 2.45	4.33	4.11 - 4.55	5.24	4.98 - 5.50
	HGB (g/dL)	5.7	5.4 - 6.0	12.1	11.5 - 12.7	16.4	15.6 - 17.2
	HCT (%)	17.4	16.2 - 18.6	35.1	33.0 - 37.2	46.4	43.6 - 49.2
	MCV (fL)	75.4	66.1 - 85.7	80.9	72.6 - 90.4	88.6	79.3 - 98.8
	MCH (pg)	24.8	21.9 - 27.8	27.8	25.3 - 30.9	31.4	28.3 - 34.6
	MCHC (g/dL)	32.9	28.8 - 37.3	34.4	30.9 - 38.5	35.4	31.7 - 39.5
	PLT (10 <sup>9</sup> /L)	54	27 - 81	204	173 - 234	471	401 - 542
	RDW-SD (fL)	44.7	40.2 - 49.2	43.9	39.5 - 48.3	45.2	40.7 - 49.7
	RDW-CV (%)	16.3	14.7 - 17.9	15.0	13.5 - 16.5	14.1	12.7 - 15.5
	MPV (fL)	9.2	8.5 - 9.9	9.5	8.9 - 10.1	9.7	9.1 - 10.3
	WBC (10 <sup>9</sup> /L)	2.98	2.53 - 3.42	7.03	6.39 - 7.66	17.36	15.97 - 18.75
	WBC-D (10 <sup>9</sup> /L)	2.85	2.42 - 3.28	6.63	6.04 - 7.23	16.25	14.95 - 17.55
	NEUT%	42.7	34.2 - 51.2	48.7	41.4 - 56.0	53.8	45.8 - 61.9
	LYMPH%	36.8	22.1 - 51.5	31.0	24.8 - 37.2	24.6	19.7 - 29.5
	MONO%	10.8	2.2 - 19.5	10.0	6.0 - 14.0	10.0	7.0 - 12.9
	EO%	9.6	6.7 - 12.5	10.4	7.3 - 13.5	11.6	8.7 - 14.5
	BASO%	63.8	44.7 - 83.0	67.8	47.4 - 88.1	74.3	55.7 - 92.8
	NEUT# (10 <sup>9</sup> /L)	1.27	1.02 - 1.53	3.42	2.91 - 3.93	9.35	7.95 - 10.75
	LYMPH# (10 <sup>9</sup> /L)	1.10	0.66 - 1.53	2.18	1.74 - 2.61	4.27	3.42 - 5.12
	MONO# (10 <sup>9</sup> /L)	0.32	0.06 - 0.58	0.70	0.28 - 1.12	1.73	1.04 - 2.42
	EO# (10 <sup>9</sup> /L)	0.29	0.20 - 0.37	0.73	0.51 - 0.95	2.02	1.51 - 2.52
	BASO# (10 <sup>9</sup> /L)	1.90	1.33 - 2.47	4.76	3.33 - 6.19	12.90	9.67 - 16.12
	NRBC# (10 <sup>9</sup> /L)	0.15	0.07 - 0.22	0.41	0.29 - 0.54	1.07	0.75 - 1.39
	NRBC% (/100 WBC)	5.3	2.7 - 8.0	6.2	4.3 - 8.1	6.4	4.5 - 8.3
	PLT-O (10 <sup>9</sup> /L)	58	29 - 88	205	174 - 236	488	415 - 561
	RET# (10 <sup>12</sup> /L)	0.1406	0.0984 - 0.1828	0.1128	0.0790 - 0.1466	0.0605	0.0424 - 0.0787
	RET%	6.09	4.26 - 7.92	2.60	1.82 - 3.38	1.16	0.81 - 1.51
	IRF (%)	32.8	12.8 - 52.8	30.7	10.7 - 50.7	24.8	4.8 - 44.8
	IG #	0.31	0.28 - 0.34	0.80	0.60 - 1.00	2.22	1.55 - 2.89
	IG %	10.1	7.1 - 13.1	11.3	8.5 - 14.1	12.8	7.7 - 17.9
HPC #	0.015	0.013 - 0.017	0.038	0.034 - 0.042	0.105	0.095 - 0.116	
RET-HE (pg)	24.2	16.9 - 31.5	24.8	18.6 - 31.0	25.5	15.3 - 35.7	
IPF %	21.8	18.5 - 25.1	22.2	18.9 - 25.5	22.0	18.7 - 25.3	

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