



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

Expiration Date: <b>2012-02-27</b>		Quality Control Data Due Date #1: 16-Jan-12			Quality Control Data Due Date #2: 27-Feb-12					
Lot Number:		13410810		13410811		13410812				
Control:		L1:Level 1		L2:Level 2		L3:Level 3				
O P E N	<b>PARAMETERS</b>	<b>MEAN</b>	<b>EXPECTED RANGE</b>		<b>MEAN</b>	<b>EXPECTED RANGE</b>		<b>MEAN</b>	<b>EXPECTED RANGE</b>	
	RBC (10 <sup>12</sup> /L)	2.29	2.20	- 2.38	4.29	4.16	- 4.42	5.15	5.00	- 5.30
	HGB (g/dL)	5.7	5.5	- 5.9	12.2	11.8	- 12.6	15.8	15.3	- 16.3
	HCT (%)	17.4	16.5	- 18.3	35.6	34.0	- 37.2	44.9	42.9	- 46.9
	MCV (fL)	76.0	69.4	- 83.1	83.0	76.9	- 89.4	87.2	80.8	- 93.9
	MCH (pg)	25.0	23.0	- 27.0	28.5	26.8	- 30.2	30.6	28.9	- 32.6
	MCHC (g/dL)	32.9	30.0	- 35.9	34.3	31.8	- 37.0	35.1	32.7	- 38.0
	PLT (10 <sup>9</sup> /L)	53	32	- 74	209	186	- 232	493	449	- 537
	RDW-SD (fL)	45.9	41.3	- 50.5	43.3	39.0	- 47.6	43.8	39.4	- 48.2
	RDW-CV (%)	16.6	14.9	- 18.3	14.4	13.0	- 15.8	13.9	12.5	- 15.3
	MPV (fL)	9.4	8.6	- 10.2	9.8	9.2	- 10.4	9.9	9.3	- 10.5
	WBC (10 <sup>9</sup> /L)	3.06	2.75	- 3.37	7.29	6.85	- 7.73	18.07	16.99	- 19.15
	WBC-D (10 <sup>9</sup> /L)	2.86	2.57	- 3.15	6.88	6.47	- 7.29	17.21	16.18	- 18.24
	NEUT%	44.9	35.9	- 53.9	48.3	41.1	- 55.5	52.3	44.5	- 60.1
	LYMPH%	35.0	21.0	- 49.0	30.2	24.2	- 36.2	25.3	20.2	- 30.4
	MONO%	10.6	2.1	- 19.1	11.4	6.8	- 16.0	11.1	7.8	- 14.4
	EO%	9.5	6.7	- 12.4	10.2	7.1	- 13.3	11.3	8.5	- 14.1
	BASO%	63.6	44.5	- 82.7	67.8	47.5	- 88.1	72.5	54.4	- 90.6
	NEUT# (10 <sup>9</sup> /L)	1.37	1.10	- 1.64	3.52	2.99	- 4.05	9.46	8.04	- 10.88
	LYMPH# (10 <sup>9</sup> /L)	1.07	0.64	- 1.50	2.20	1.76	- 2.64	4.57	3.66	- 5.48
	MONO# (10 <sup>9</sup> /L)	0.32	0.06	- 0.58	0.83	0.33	- 1.33	2.00	1.20	- 2.80
	EO# (10 <sup>9</sup> /L)	0.29	0.20	- 0.38	0.74	0.52	- 0.96	2.05	1.54	- 2.56
	BASO# (10 <sup>9</sup> /L)	1.94	1.36	- 2.52	4.94	3.46	- 6.42	13.11	9.83	- 16.39
	NRBC# (10 <sup>9</sup> /L)	0.16	0.08	- 0.24	0.45	0.32	- 0.59	1.13	0.79	- 1.47
	NRBC% (/100 WBC)	5.4	2.7	- 8.1	6.6	4.6	- 8.6	6.7	4.7	- 8.7
	PLT-O (10 <sup>9</sup> /L)	59	32	- 86	219	186	- 252	494	420	- 568
	RET# (10 <sup>12</sup> /L)	0.1468	0.1028	- 0.1908	0.1186	0.0830	- 0.1542	0.0608	0.0426	- 0.0790
	RET%	6.41	4.49	- 8.33	2.77	1.94	- 3.60	1.18	0.83	- 1.53
	IRF (%)	36.2	16.2	- 56.2	34.6	14.6	- 54.6	27.6	7.6	- 47.6
	IG #	0.33	0.30	- 0.36	0.83	0.62	- 1.04	2.20	1.54	- 2.86
IG %	10.7	7.5	- 13.9	11.4	8.6	- 14.3	12.2	7.3	- 17.1	
HPC #	0.014	0.012	- 0.016	0.037	0.033	- 0.041	0.108	0.097	- 0.119	
RET-HE (pg)	24.6	17.2	- 32.0	25.2	18.9	- 31.5	26.3	15.8	- 36.8	
IPF %	21.7	18.4	- 25.0	21.8	18.5	- 25.1	21.4	18.2	- 24.6	

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: <b>2012-02-27</b>		Quality Control Data Due Date #1: 16-Jan-12			Quality Control Data Due Date #2: 27-Feb-12		
Lot Number:		13410810		13410811		13410812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
<b>C L O S E D</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>
	RBC (10 <sup>12</sup> /L)	2.29	2.15 - 2.43	4.29	4.08 - 4.50	5.15	4.89 - 5.41
	HGB (g/dL)	5.7	5.4 - 6.0	12.2	11.6 - 12.8	15.8	15.0 - 16.6
	HCT (%)	17.4	16.2 - 18.6	35.6	33.5 - 37.7	44.9	42.2 - 47.6
	MCV (fL)	76.0	66.7 - 86.5	83.0	74.3 - 92.6	87.2	78.1 - 97.3
	MCH (pg)	25.0	22.1 - 28.1	28.5	25.7 - 31.4	30.6	27.8 - 33.9
	MCHC (g/dL)	32.9	28.8 - 37.3	34.3	30.7 - 38.3	35.1	31.5 - 39.3
	PLT (10 <sup>9</sup> /L)	53	27 - 80	205	174 - 236	468	398 - 539
	RDW-SD (fL)	45.9	41.3 - 50.5	43.3	39.0 - 47.6	43.8	39.4 - 48.2
	RDW-CV (%)	16.6	14.9 - 18.3	14.4	13.0 - 15.8	13.9	12.5 - 15.3
	MPV (fL)	9.4	8.6 - 10.2	9.8	9.2 - 10.4	9.9	9.3 - 10.5
	WBC (10 <sup>9</sup> /L)	2.97	2.52 - 3.41	6.85	6.24 - 7.47	17.71	16.29 - 19.13
	WBC-D (10 <sup>9</sup> /L)	2.77	2.36 - 3.19	6.67	6.07 - 7.27	16.69	15.36 - 18.03
	NEUT%	45.1	36.1 - 54.1	47.3	40.2 - 54.4	52.8	44.9 - 60.7
	LYMPH%	35.0	21.0 - 49.0	31.5	25.2 - 37.8	25.8	20.6 - 31.0
	MONO%	10.2	2.0 - 18.4	10.9	6.5 - 15.3	10.2	7.1 - 13.2
	EO%	9.7	6.8 - 12.6	10.4	7.3 - 13.5	11.2	8.4 - 14.0
	BASO%	64.7	45.3 - 84.1	69.2	48.4 - 90.0	72.6	54.4 - 90.7
	NEUT# (10 <sup>9</sup> /L)	1.34	1.07 - 1.61	3.24	2.75 - 3.73	9.35	7.95 - 10.75
	LYMPH# (10 <sup>9</sup> /L)	1.04	0.62 - 1.45	2.16	1.72 - 2.59	4.57	3.66 - 5.48
	MONO# (10 <sup>9</sup> /L)	0.30	0.06 - 0.55	0.75	0.30 - 1.20	1.80	1.08 - 2.52
	EO# (10 <sup>9</sup> /L)	0.29	0.20 - 0.37	0.71	0.50 - 0.92	1.99	1.49 - 2.49
	BASO# (10 <sup>9</sup> /L)	1.92	1.34 - 2.50	4.74	3.32 - 6.17	12.85	9.64 - 16.06
	NRBC# (10 <sup>9</sup> /L)	0.16	0.08 - 0.24	0.43	0.30 - 0.56	1.13	0.79 - 1.47
	NRBC% (/100 WBC)	5.4	2.7 - 8.1	6.6	4.6 - 8.6	6.7	4.7 - 8.7
	PLT-O (10 <sup>9</sup> /L)	58	29 - 88	217	184 - 249	479	407 - 551
	RET# (10 <sup>12</sup> /L)	0.1468	0.1028 - 0.1908	0.1186	0.0830 - 0.1542	0.0608	0.0426 - 0.0790
	RET%	6.41	4.49 - 8.33	2.77	1.94 - 3.60	1.18	0.83 - 1.53
IRF (%)	36.2	16.2 - 56.2	34.6	14.6 - 54.6	27.6	7.6 - 47.6	
IG #	0.33	0.30 - 0.36	0.80	0.60 - 1.00	2.13	1.49 - 2.77	
IG %	10.7	7.5 - 13.9	11.4	8.6 - 14.3	12.2	7.3 - 17.1	
HPC #	0.014	0.012 - 0.016	0.037	0.033 - 0.041	0.108	0.097 - 0.119	
RET-HE (pg)	24.6	17.2 - 32.0	25.2	18.9 - 31.5	26.3	15.8 - 36.8	
IPF %	21.7	18.4 - 25.0	21.8	18.5 - 25.1	21.4	18.2 - 24.6	

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.