



## e-CHECK™ (XE)

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

Expiration Date: <b>2008-10-13</b>		Quality Control Data Due Date #1: <b>2-Sep-08</b>			Quality Control Data Due Date #2: <b>13-Oct-08</b>		
Lot Number:		<b>82050810</b>		<b>82050811</b>		<b>82050812</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	
O P E N	RBC (10 <sup>12</sup> /L)	2.30	2.21 - 2.39	4.31	4.18 - 4.44	5.25	5.09 - 5.41
	HGB (g/dL)	5.7	5.5 - 5.9	12.0	11.6 - 12.3	15.9	15.4 - 16.4
	HCT (%)	17.2	16.3 - 18.0	34.6	33.1 - 36.2	44.6	42.6 - 46.7
	MCV (fL)	74.7	68.2 - 81.7	80.4	74.5 - 86.6	85.0	78.8 - 91.6
	MCH (pg)	24.9	22.9 - 26.9	27.7	26.1 - 29.5	30.2	28.5 - 32.1
	MCHC (g/dL)	33.3	30.4 - 36.4	34.5	32.0 - 37.2	35.6	33.0 - 38.4
	PLT (10 <sup>9</sup> /L)	52	31 - 73	208	185 - 231	497	452 - 542
	RDW-SD (fL)	44.6	40.1 - 49.1	42.8	38.5 - 47.1	42.8	38.5 - 47.1
	RDW-CV (%)	16.4	14.7 - 18.0	14.7	13.3 - 16.2	14.0	12.6 - 15.4
	MPV (fL)	9.0	8.3 - 9.8	9.3	8.8 - 9.9	9.5	9.0 - 10.1
	WBC (10 <sup>9</sup> /L)	2.98	2.69 - 3.28	7.71	7.25 - 8.17	18.01	16.93 - 19.09
	WBC-D (10 <sup>9</sup> /L)	2.84	2.55 - 3.12	7.14	6.71 - 7.57	16.69	15.69 - 17.69
	NEUT%	46.1	36.9 - 55.4	48.7	41.4 - 56.0	52.0	44.2 - 59.8
	LYMPH%	34.0	20.4 - 47.6	29.9	23.9 - 35.9	25.9	20.7 - 31.1
	MONO%	10.0	2.0 - 18.1	10.7	6.4 - 14.9	11.2	7.9 - 14.6
	EO%	9.8	6.9 - 12.8	10.7	7.5 - 13.9	10.9	8.2 - 13.6
	BASO%	64.5	45.1 - 83.8	67.9	47.5 - 88.2	71.8	53.8 - 89.7
	NEUT# (10 <sup>9</sup> /L)	1.38	1.10 - 1.65	3.76	3.19 - 4.32	9.37	7.96 - 10.77
	LYMPH# (10 <sup>9</sup> /L)	1.01	0.61 - 1.42	2.31	1.84 - 2.77	4.67	3.74 - 5.60
	MONO# (10 <sup>9</sup> /L)	0.30	0.06 - 0.54	0.82	0.33 - 1.32	2.02	1.21 - 2.83
EO# (10 <sup>9</sup> /L)	0.29	0.21 - 0.38	0.83	0.58 - 1.08	1.96	1.47 - 2.45	
BASO# (10 <sup>9</sup> /L)	1.92	1.35 - 2.50	5.23	3.66 - 6.80	12.93	9.70 - 16.16	
NRBC# (10 <sup>9</sup> /L)	0.14	0.07 - 0.22	0.42	0.29 - 0.55	0.96	0.67 - 1.25	
NRBC% (/100 WBC)	5.1	2.5 - 7.6	5.8	4.0 - 7.5	5.6	3.9 - 7.3	
PLT-O (10 <sup>9</sup> /L)	58	32 - 84	217	184 - 249	521	443 - 600	
RET# (10 <sup>12</sup> /L)	0.1374	0.0962 - 0.1786	0.1132	0.0792 - 0.1471	0.0548	0.0384 - 0.0712	
RET%	5.98	4.19 - 7.77	2.63	1.84 - 3.41	1.04	0.73 - 1.36	
IRF (%)	29.9	9.9 - 49.9	19.3	0.0 - 39.3	14.1	0.0 - 34.1	
IG #	0.33	0.30 - 0.36	0.88	0.66 - 1.10	2.23	1.56 - 2.90	
IG %	11.06	7.74 - 14.37	11.44	8.58 - 14.30	12.35	7.41 - 17.29	
HPC #	0.014	0.012 - 0.016	0.037	0.033 - 0.041	0.098	0.088 - 0.107	
RET-HE (pg)	24.2	17.0 - 31.5	25.6	19.2 - 32.0	26.4	15.9 - 37.0	
IPF %	21.4	18.1 - 24.6	21.5	18.3 - 24.7	21.8	18.6 - 25.1	

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>2008-10-13</b>		Quality Control Data Due Date #1: <b>2-Sep-08</b>			Quality Control Data Due Date #2: <b>13-Oct-08</b>				
Lot Number:		82050810		82050811		82050812			
Control:		L1:Level 1		L2:Level 2		L3:Level 3			
PARAMETERS	MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
CLOSED	RBC (10 <sup>12</sup> /L)	2.30	2.16 - 2.44	4.31	4.09 - 4.52	5.25	4.99 - 5.51		
	HGB (g/dL)	5.7	5.4 - 6.1	12.0	11.4 - 12.6	15.9	15.1 - 16.7		
	HCT (%)	17.2	16.0 - 18.4	34.6	32.6 - 36.7	44.6	42.0 - 47.3		
	MCV (fL)	74.7	65.5 - 85.0	80.4	72.0 - 89.7	85.0	76.1 - 94.9		
	MCH (pg)	24.9	22.0 - 28.0	27.7	25.1 - 30.7	30.2	27.4 - 33.4		
	MCHC (g/dL)	33.3	29.2 - 37.9	34.5	30.9 - 38.6	35.6	31.9 - 39.7		
	PLT (10 <sup>9</sup> /L)	51	25 - 76	200	170 - 230	462	393 - 531		
	RDW-SD (fL)	44.6	40.1 - 49.1	42.8	38.5 - 47.1	42.8	38.5 - 47.1		
	RDW-CV (%)	16.4	14.7 - 18.0	14.7	13.3 - 16.2	14.0	12.6 - 15.4		
	MPV (fL)	9.0	8.3 - 9.8	9.3	8.8 - 9.9	9.5	9.0 - 10.1		
	WBC (10 <sup>9</sup> /L)	2.89	2.46 - 3.33	7.33	6.67 - 7.98	17.65	16.24 - 19.06		
	WBC-D (10 <sup>9</sup> /L)	2.75	2.34 - 3.16	6.78	6.17 - 7.39	16.36	15.05 - 17.67		
	NEUT%	46.0	36.8 - 55.2	49.0	41.7 - 56.4	51.3	43.6 - 59.0		
	LYMPH%	34.0	20.4 - 47.6	29.6	23.7 - 35.5	26.5	21.2 - 31.7		
	MONO%	10.3	2.1 - 18.6	10.6	6.3 - 14.8	11.1	7.8 - 14.4		
	EO%	9.6	6.7 - 12.5	10.8	7.6 - 14.1	11.1	8.3 - 13.9		
	BASO%	65.1	45.6 - 84.6	66.4	46.5 - 86.4	70.3	52.7 - 87.9		
	NEUT# (10 <sup>9</sup> /L)	1.33	1.07 - 1.60	3.59	3.05 - 4.13	9.06	7.70 - 10.42		
	LYMPH# (10 <sup>9</sup> /L)	0.98	0.59 - 1.38	2.17	1.73 - 2.60	4.67	3.74 - 5.60		
	MONO# (10 <sup>9</sup> /L)	0.30	0.06 - 0.54	0.77	0.31 - 1.24	1.96	1.18 - 2.75		
	EO# (10 <sup>9</sup> /L)	0.28	0.20 - 0.36	0.79	0.56 - 1.03	1.96	1.47 - 2.45		
	BASO# (10 <sup>9</sup> /L)	1.88	1.32 - 2.45	4.87	3.41 - 6.33	12.41	9.31 - 15.51		
	NRBC# (10 <sup>9</sup> /L)	0.14	0.07 - 0.21	0.41	0.29 - 0.54	0.95	0.67 - 1.24		
	NRBC% (/100 WBC)	5.0	2.5 - 7.5	5.7	4.0 - 7.4	5.6	3.9 - 7.2		
	PLT-O (10 <sup>9</sup> /L)	55	28 - 83	212	180 - 244	511	434 - 588		
	RET# (10 <sup>12</sup> /L)	0.1374	0.0962 - 0.1786	0.1132	0.0792 - 0.1471	0.0548	0.0384 - 0.0712		
	RET%	5.98	4.19 - 7.77	2.63	1.84 - 3.41	1.04	0.73 - 1.36		
	IRF (%)	29.9	9.9 - 49.9	19.3	0.0 - 39.3	14.1	0.0 - 34.1		
	IG #	0.33	0.30 - 0.36	0.88	0.66 - 1.10	2.23	1.56 - 2.90		
	IG %	11.06	7.74 - 14.37	11.44	8.58 - 14.30	12.35	7.41 - 17.29		
HPC #	0.014	0.012 - 0.016	0.037	0.033 - 0.041	0.098	0.088 - 0.107			
RET-HE (pg)	24.2	17.0 - 31.5	25.6	19.2 - 32.0	26.4	15.9 - 37.0			
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