



## e-CHECK™ (XE)

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

Expiration Date: <b>2008-12-08</b>		Quality Control Data Due Date #1: <b>27-Oct-08</b>			Quality Control Data Due Date #2: <b>8-Dec-08</b>		
Lot Number:		<b>82610810</b>		<b>82610811</b>		<b>82610812</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)	2.27	2.18 - 2.37	4.30	4.17 - 4.42	5.27	5.11 - 5.42
	HGB (g/dL)	5.7	5.5 - 5.9	12.6	12.2 - 12.9	16.7	16.2 - 17.2
	HCT (%)	17.0	16.1 - 17.8	35.7	34.1 - 37.4	46.4	44.3 - 48.5
	MCV (fL)	74.6	68.2 - 81.6	83.2	77.1 - 89.6	88.2	81.8 - 95.0
	MCH (pg)	25.1	23.2 - 27.2	29.2	27.5 - 31.0	31.7	29.8 - 33.6
	MCHC (g/dL)	33.6	30.8 - 36.9	35.1	32.6 - 37.9	35.9	33.3 - 38.7
	PLT (10 <sup>9</sup> /L)	50	30 - 70	205	182 - 227	498	453 - 543
	RDW-SD (fL)	43.2	38.9 - 47.6	43.3	38.9 - 47.6	43.1	38.8 - 47.4
	RDW-CV (%)	16.0	14.4 - 17.6	14.3	12.9 - 15.8	13.5	12.1 - 14.8
	MPV (fL)	9.1	8.4 - 9.8	9.5	8.9 - 10.0	9.6	9.0 - 10.2
	WBC (10 <sup>9</sup> /L)	3.04	2.73 - 3.34	7.19	6.76 - 7.62	18.15	17.06 - 19.24
	WBC-D (10 <sup>9</sup> /L)	2.81	2.53 - 3.09	6.66	6.26 - 7.05	17.16	16.13 - 18.19
	NEUT%	43.0	34.4 - 51.6	48.4	41.1 - 55.6	52.3	44.5 - 60.1
	LYMPH%	34.5	20.7 - 48.3	29.9	23.9 - 35.9	24.6	19.7 - 29.5
	MONO%	13.1	2.6 - 23.7	11.5	6.9 - 16.1	11.4	8.0 - 14.8
	EO%	9.3	6.5 - 12.1	10.3	7.2 - 13.4	11.7	8.8 - 14.6
	BASO%	63.0	44.1 - 81.9	68.8	48.1 - 89.4	73.2	54.9 - 91.5
	NEUT# (10 <sup>9</sup> /L)	1.31	1.05 - 1.57	3.48	2.96 - 4.00	9.49	8.07 - 10.91
	LYMPH# (10 <sup>9</sup> /L)	1.05	0.63 - 1.47	2.15	1.72 - 2.58	4.46	3.57 - 5.35
	MONO# (10 <sup>9</sup> /L)	0.40	0.08 - 0.72	0.82	0.33 - 1.32	2.07	1.24 - 2.90
	EO# (10 <sup>9</sup> /L)	0.28	0.20 - 0.37	0.74	0.52 - 0.96	2.12	1.59 - 2.65
	BASO# (10 <sup>9</sup> /L)	1.91	1.34 - 2.49	4.94	3.46 - 6.43	13.29	9.97 - 16.61
	NRBC# (10 <sup>9</sup> /L)	0.14	0.07 - 0.21	0.41	0.29 - 0.54	0.92	0.64 - 1.20
	NRBC% (/100 WBC)	4.9	2.5 - 7.4	6.1	4.3 - 7.9	5.3	3.7 - 6.9
	PLT-O (10 <sup>9</sup> /L)	55	30 - 80	210	178 - 241	523	445 - 602
	RET# (10 <sup>12</sup> /L)	0.1534	0.1074 - 0.1994	0.1327	0.0929 - 0.1724	0.0622	0.0435 - 0.0808
	RET%	6.74	4.72 - 8.77	3.09	2.16 - 4.01	1.18	0.83 - 1.54
	IRF (%)	16.9	0.0 - 36.9	14.2	0.0 - 34.2	10.3	0.0 - 30.3
	IG #	0.31	0.28 - 0.34	0.83	0.62 - 1.03	2.25	1.58 - 2.93
	IG %	10.09	7.06 - 13.11	11.50	8.62 - 14.37	12.42	7.45 - 17.39
HPC #	0.014	0.012 - 0.016	0.035	0.032 - 0.039	0.101	0.091 - 0.111	
RET-HE (pg)	24.3	17.0 - 31.6	24.8	18.6 - 31.0	25.7	15.4 - 35.9	
IPF %	21.7	18.4 - 24.9	21.5	18.3 - 24.8	21.8	18.5 - 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>2008-12-08</b>		Quality Control Data Due Date #1: <b>27-Oct-08</b>			Quality Control Data Due Date #2: <b>8-Dec-08</b>		
Lot Number:		<b>82610810</b>		<b>82610811</b>		<b>82610812</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)	2.27	2.14 - 2.41	4.30	4.08 - 4.51	5.27	5.00 - 5.53
	HGB (g/dL)	5.7	5.4 - 6.1	12.6	11.9 - 13.2	16.7	15.8 - 17.5
	HCT (%)	17.0	15.8 - 18.2	35.7	33.6 - 37.9	46.4	43.6 - 49.2
	MCV (fL)	74.6	65.5 - 85.0	83.2	74.5 - 92.8	88.2	78.9 - 98.4
	MCH (pg)	25.1	22.3 - 28.3	29.2	26.4 - 32.3	31.7	28.7 - 35.0
	MCHC (g/dL)	33.6	29.6 - 38.4	35.1	31.5 - 39.2	35.9	32.2 - 40.1
	PLT (10 <sup>9</sup> /L)	49	25 - 74	196	167 - 226	463	394 - 533
	RDW-SD (fL)	43.2	38.9 - 47.6	43.3	38.9 - 47.6	43.1	38.8 - 47.4
	RDW-CV (%)	16.0	14.4 - 17.6	14.3	12.9 - 15.8	13.5	12.1 - 14.8
	MPV (fL)	9.1	8.4 - 9.8	9.5	8.9 - 10.0	9.6	9.0 - 10.2
	WBC (10 <sup>9</sup> /L)	2.95	2.50 - 3.39	6.83	6.22 - 7.45	17.78	16.36 - 19.21
	WBC-D (10 <sup>9</sup> /L)	2.72	2.32 - 3.13	6.32	5.75 - 6.89	16.82	15.47 - 18.16
	NEUT%	42.8	34.2 - 51.3	48.7	41.4 - 56.0	51.7	43.9 - 59.4
	LYMPH%	34.5	20.7 - 48.3	29.6	23.7 - 35.5	25.1	20.1 - 30.1
	MONO%	13.6	2.7 - 24.4	11.3	6.8 - 15.9	11.3	7.9 - 14.7
	EO%	9.1	6.4 - 11.9	10.4	7.3 - 13.5	11.9	9.0 - 14.9
	BASO%	63.6	44.5 - 82.7	67.3	47.1 - 87.5	71.7	53.8 - 89.7
	NEUT# (10 <sup>9</sup> /L)	1.26	1.01 - 1.51	3.33	2.83 - 3.82	9.19	7.81 - 10.57
	LYMPH# (10 <sup>9</sup> /L)	1.02	0.61 - 1.42	2.02	1.62 - 2.43	4.46	3.57 - 5.35
	MONO# (10 <sup>9</sup> /L)	0.40	0.08 - 0.72	0.78	0.31 - 1.24	2.01	1.21 - 2.81
	EO# (10 <sup>9</sup> /L)	0.27	0.19 - 0.35	0.71	0.50 - 0.92	2.12	1.59 - 2.65
	BASO# (10 <sup>9</sup> /L)	1.88	1.31 - 2.44	4.60	3.22 - 5.98	12.76	9.57 - 15.94
	NRBC# (10 <sup>9</sup> /L)	0.14	0.07 - 0.21	0.40	0.28 - 0.53	0.91	0.64 - 1.18
	NRBC% (/100 WBC)	4.9	2.4 - 7.3	6.0	4.2 - 7.8	5.3	3.7 - 6.9
	PLT-O (10 <sup>9</sup> /L)	53	26 - 79	206	175 - 236	513	436 - 589
	RET# (10 <sup>12</sup> /L)	0.1534	0.1074 - 0.1994	0.1327	0.0929 - 0.1724	0.0622	0.0435 - 0.0808
	RET%	6.74	4.72 - 8.77	3.09	2.16 - 4.01	1.18	0.83 - 1.54
	IRF (%)	16.9	0.0 - 36.9	14.2	0.0 - 34.2	10.3	0.0 - 30.3
	IG #	0.31	0.28 - 0.34	0.83	0.62 - 1.03	2.25	1.58 - 2.93
	IG %	10.09	7.06 - 13.11	11.50	8.62 - 14.37	12.42	7.45 - 17.39
HPC #	0.014	0.012 - 0.016	0.035	0.032 - 0.039	0.101	0.091 - 0.111	
RET-HE (pg)	24.3	17.0 - 31.6	24.8	18.6 - 31.0	25.7	15.4 - 35.9	
IPF %	21.7	18.4 - 24.9	21.5	18.3 - 24.8	21.8	18.5 - 25.1	

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