



**HEMATOLOGY CONTROL FOR SYSMEX XE-C SERIES ANALYZERS
OPEN MODE ASSAY**

Expiration Date: 2010-09-13		Quality Control Data Due Date #1: 2-Aug-10			Quality Control Data Due Date #2: 13-Sep-10		
Lot Number:		01750801		01750802		01750803	
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)	2.22	2.13 - 2.31	4.30	4.17 - 4.43	5.17	5.01 - 5.33
	HGB (g/dL)	5.6	5.4 - 5.8	11.8	11.4 - 12.2	15.5	15.0 - 16.0
	HCT (%)	16.0	15.2 - 16.8	32.8	31.3 - 34.3	42.1	40.2 - 44.0
	MCV (fL)	71.9	65.8 - 78.8	76.2	70.7 - 82.2	81.4	75.5 - 87.7
	MCH (pg)	25.2	23.3 - 27.3	27.5	25.8 - 29.1	29.9	28.2 - 31.8
	MCHC (g/dL)	35.0	32.0 - 38.3	36.1	33.4 - 38.8	36.7	34.2 - 39.7
	PLT (10 ⁹ /L)	57	34 - 80	222	198 - 246	545	496 - 594
	RDW-SD (fL)	43.4	39.1 - 47.7	42.6	38.3 - 46.9	43.8	39.4 - 48.2
	RDW-CV (%)	16.6	14.9 - 18.3	15.6	14.0 - 17.2	15.2	13.7 - 16.7
	MPV (fL)	9.4	8.6 - 10.2	9.7	9.1 - 10.3	9.9	9.3 - 10.5
	WBC (10 ⁹ /L)	2.95	2.66 - 3.25	6.92	6.50 - 7.34	16.42	15.43 - 17.41
	NEUT%	43.8	35.0 - 52.6	48.6	41.3 - 55.9	56.5	48.0 - 65.0
	LYMPH%	35.7	21.4 - 50.0	29.9	23.9 - 35.9	21.3	17.0 - 25.6
	MONO%	10.9	2.2 - 19.6	11.0	6.6 - 15.4	10.2	7.1 - 13.3
	EO%	9.6	6.7 - 12.5	10.5	7.4 - 13.7	12.1	9.1 - 15.1
	BASO%	63.4	44.4 - 82.4	70.1	49.1 - 91.1	78.9	59.2 - 98.6
	NEUT# (10 ⁹ /L)	1.29	1.03 - 1.55	3.37	2.86 - 3.88	9.27	7.88 - 10.66
	LYMPH# (10 ⁹ /L)	1.05	0.63 - 1.47	2.07	1.66 - 2.48	3.50	2.80 - 4.20
	MONO# (10 ⁹ /L)	0.32	0.06 - 0.58	0.76	0.30 - 1.22	1.67	1.00 - 2.34
	EO# (10 ⁹ /L)	0.28	0.20 - 0.36	0.73	0.51 - 0.95	1.98	1.49 - 2.48
	BASO# (10 ⁹ /L)	1.87	1.31 - 2.43	4.85	3.40 - 6.31	12.95	9.71 - 16.19
	DIFF-X (ch)	157.9	152.9 - 162.9	158.6	153.6 - 163.6	158.9	153.9 - 163.9
	DIFF-Y (ch)	72.5	47.5 - 97.5	68.5	43.5 - 93.5	63.7	38.7 - 88.7
	BASO-X (ch)	112.0	105.0 - 119.0	113.1	106.1 - 120.1	114.0	107.0 - 121.0
	BASO-Y (ch)	141.1	129.1 - 153.1	140.7	128.7 - 152.7	141.8	129.8 - 153.8
	IMI#	1421	1066 - 1776	3992	3194 - 4790	11799	9439 - 14159
	IMIDC (fL)	522.0	497.0 - 547.0	506.1	481.1 - 531.1	525.7	500.7 - 550.7
	IMIRF (fL)	187.4	162.4 - 212.4	184.7	159.7 - 209.7	189.2	164.2 - 214.2
	NRBC# (10 ⁹ /L)	2.91	2.62 - 3.20	6.80	6.39 - 7.21	17.00	15.98 - 18.02
	NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A
	NRBC_X (ch)	193.0	183.0 - 203.0	177.4	167.4 - 187.4	170.5	160.5 - 180.5
	NRBC_Y (ch)	140.7	130.7 - 150.7	141.8	131.8 - 151.8	142.7	132.7 - 152.7
	PLT-O (10 ⁹ /L)	58	32 - 84	209	178 - 240	502	427 - 577
	RET# (10 ¹² /L)	0.1621	0.1135 - 0.2107	0.1214	0.0850 - 0.1578	0.0580	0.0406 - 0.0754
	RET%	7.22	5.05 - 9.39	2.80	1.96 - 3.64	1.11	0.78 - 1.44
	RBC-O (10 ¹² /L)	2.18	1.96 - 2.40	4.18	3.76 - 4.60	5.07	4.56 - 5.58
	HFR (%)	2.4	0.0 - 8.4	2.2	0.0 - 8.2	1.8	0.0 - 7.8
	MFR (%)	18.9	3.9 - 33.9	18.2	3.2 - 33.2	14.9	0.0 - 29.9
	LFR (%)	78.7	63.7 - 93.7	79.6	64.6 - 94.6	83.2	68.2 - 98.2
	IRF (%)	21.3	1.3 - 41.3	20.4	0.4 - 40.4	16.8	0.0 - 36.8
RBC-X (ch)	28.2	21.2 - 35.3	25.7	19.3 - 32.1	24.0	18.0 - 30.0	
RBC-Y (ch)	157.9	134.2 - 181.6	164.5	139.8 - 189.2	170.5	144.9 - 196.1	
IG # ^a	0.31	0.28 - 0.34	0.79	0.59 - 0.99	2.19	1.53 - 2.85	
IG % ^a	10.35	7.25 - 13.46	11.31	8.48 - 14.14	13.32	7.99 - 18.65	
RET-HE (pg) ^c	24.0	16.8 - 31.2	24.5	18.4 - 30.6	25.5	15.3 - 35.7	
IPF (%) ^d	21.8	18.5 - 25.1	21.9	18.6 - 25.2	22.2	18.9 - 25.5	

^a IG values are only available with the Sysmex XE-Series IG Master software.
^b HPC values are only available with the Sysmex XE-Series HPC Master software.
^c RET-HE values are only available with the Sysmex XE-Series RET Master software.
^d IPF values are only available with the Sysmex XE-Series IPF Master software.



**HEMATOLOGY CONTROL FOR SYSMEX XE-C SERIES ANALYZERS
CLOSED MODE ASSAY**

Expiration Date 2010-09-13		Quality Control Data Due Date #1: 2-Aug-10			Quality Control Data Due Date #2: 13-Sep-10		
Lot Number:		01750801		01750802		01750803	
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 M O D E	RBC (10 ¹² /L)	2.22	2.09 - 2.35	4.30	4.09 - 4.52	5.17	4.91 - 5.43
	HGB (g/dL)	5.6	5.3 - 5.9	11.8	11.2 - 12.4	15.5	14.7 - 16.3
	HCT (%)	16.0	14.9 - 17.1	32.8	30.8 - 34.8	42.1	39.6 - 44.6
	MCV (fL)	71.9	63.2 - 82.0	76.2	68.3 - 85.1	81.4	72.9 - 90.9
	MCH (pg)	25.2	22.4 - 28.4	27.5	24.8 - 30.3	29.9	27.1 - 33.1
	MCHC (g/dL)	35.0	30.7 - 39.9	36.1	32.2 - 40.2	36.7	33.0 - 41.1
	PLT (10 ⁹ /L)	56	28 - 84	213	181 - 245	507	431 - 583
	RDW-SD (fL)	43.4	39.1 - 47.7	42.6	38.3 - 46.9	43.8	39.4 - 48.2
	RDW-CV (%)	16.6	14.9 - 18.3	15.6	14.0 - 17.2	15.2	13.7 - 16.7
	MPV (fL)	9.4	8.6 - 10.2	9.7	9.1 - 10.3	9.9	9.3 - 10.5
	WBC (10 ⁹ /L)	2.86	2.43 - 3.29	6.57	5.98 - 7.17	16.09	14.80 - 17.38
	NEUT%	43.9	35.1 - 52.7	48.9	41.5 - 56.2	55.9	47.5 - 64.3
	LYMPH%	35.6	21.4 - 49.8	29.6	23.7 - 35.5	21.8	17.4 - 26.1
	MONO%	11.2	2.2 - 20.1	10.9	6.5 - 15.2	10.1	7.0 - 13.1
	EO%	9.3	6.5 - 12.1	10.7	7.5 - 13.9	12.3	9.2 - 15.4
	BASO%	64.0	44.8 - 83.3	68.6	48.0 - 89.2	77.3	57.9 - 96.6
	NEUT# (10 ⁹ /L)	1.26	1.01 - 1.51	3.21	2.73 - 3.69	8.99	7.64 - 10.34
	LYMPH# (10 ⁹ /L)	1.02	0.61 - 1.43	1.95	1.56 - 2.33	3.50	2.80 - 4.20
	MONO# (10 ⁹ /L)	0.32	0.06 - 0.58	0.71	0.29 - 1.14	1.62	0.97 - 2.27
	EO# (10 ⁹ /L)	0.27	0.19 - 0.35	0.70	0.49 - 0.91	1.98	1.49 - 2.48
	BASO# (10 ⁹ /L)	1.83	1.28 - 2.38	4.51	3.16 - 5.86	12.43	9.32 - 15.54
	DIFF-X (ch)	157.9	152.9 - 162.9	158.6	153.6 - 163.6	158.9	153.9 - 163.9
	DIFF-Y (ch)	72.5	47.5 - 97.5	68.5	43.5 - 93.5	63.7	38.7 - 88.7
	BASO-X (ch)	112.0	105.0 - 119.0	113.1	106.1 - 120.1	114.0	107.0 - 121.0
	BASO-Y (ch)	141.1	129.1 - 153.1	140.7	128.7 - 152.7	141.8	129.8 - 153.8
	IMI#	1421	1066 - 1776	3992	3194 - 4790	11799	9439 - 14159
	IMIDC (fL)	522.0	497.0 - 547.0	506.1	481.1 - 531.1	525.7	500.7 - 550.7
	IMIRF (fL)	187.4	162.4 - 212.4	184.7	159.7 - 209.7	189.2	164.2 - 214.2
	NRBC# (10 ⁹ /L)	2.88	2.59 - 3.17	6.66	6.26 - 7.06	16.83	15.82 - 17.84
	NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A
	NRBC_X (ch)	193.0	183.0 - 203.0	177.4	167.4 - 187.4	170.5	160.5 - 180.5
	NRBC_Y (ch)	140.7	130.7 - 150.7	141.8	131.8 - 151.8	142.7	132.7 - 152.7
PLT-O (10 ⁹ /L)	55	28 - 83	205	174 - 236	492	418 - 566	
RET# (10 ¹² /L)	0.1621	0.1135 - 0.2107	0.1214	0.0850 - 0.1578	0.0580	0.0406 - 0.0754	
RET%	7.22	5.05 - 9.39	2.80	1.96 - 3.64	1.11	0.78 - 1.44	
RBC-O (10 ¹² /L)	2.18	1.96 - 2.40	4.18	3.76 - 4.60	5.07	4.56 - 5.58	
HFR (%)	2.4	0.0 - 8.4	2.2	0.0 - 8.2	1.8	0.0 - 7.8	
MFR (%)	18.9	3.9 - 33.9	18.2	3.2 - 33.2	14.9	0.0 - 29.9	
LFR (%)	78.7	63.7 - 93.7	79.6	64.6 - 94.6	83.2	68.2 - 98.2	
IRF (%)	21.3	1.3 - 41.3	20.4	0.4 - 40.4	16.8	0.0 - 36.8	
RBC-X (ch)	28.2	21.2 - 35.3	25.7	19.3 - 32.1	24.0	18.0 - 30.0	
RBC-Y (ch)	157.9	134.2 - 181.6	164.5	139.8 - 189.2	170.5	144.9 - 196.1	
IG # ^a	0.31	0.28 - 0.34	0.79	0.59 - 0.99	2.19	1.53 - 2.85	
IG % ^a	10.35	7.25 - 13.46	11.31	8.48 - 14.14	13.32	7.99 - 18.65	
RET-HE (pg) ^c	24.0	16.8 - 31.2	24.5	18.4 - 30.6	25.5	15.3 - 35.7	
IPF (%) ^d	21.8	18.5 - 25.1	21.9	18.6 - 25.2	22.2	18.9 - 25.5	

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^c RET-HE values are only available with the Sysmex XE-Series RET Master software.
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