sysmex

e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XE 2100 ANALYZERS

OPEN MODE ASSAY

Expiration Date: 2010-04-26	Quality Control Data Due Date #1: 15-Mar-10	Quality Control Data Due Date #2: 26-Apr-10

Lot Number:	00340810	00340811	00340812
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)	2.24	2.15 - 2.33	4.30	4.17 - 4.43	5.16	5.01 - 5.31
	HGB (g/dL)	5.5	5.3 - 5.7	11.9	11.5 - 12.3	15.8	15.3 - 16.3
	HCT (%)	16.5	15.7 - 17.3	34.1	32.6 - 35.6	44.4	42.4 - 46.4
	MCV (fL)	73.7	67.3 - 80.6	79.3	73.5 - 85.4	86.0	79.8 - 92.7
	MCH (pg)	24.6	22.7 - 26.6	27.6	26.1 - 29.4	30.5	28.8 - 32.5
	MCHC (g/dL)	33.3	30.5 - 36.5	34.8	32.4 - 37.6	35.5	33.0 - 38.4
	PLT (10^9/L)	53	32 - 74	215	191 - 239	490	446 - 534
	RDW-SD (fL)	44.1	39.7 - 48.5	44.3	39.9 - 48.7	44.5	40.1 - 49.0
	RDW-CV (%)	16.3	14.7 - 17.9	15.3	13.8 - 16.8	14.6	13.1 - 16.1
	MPV (fL)	8.8	8.1 - 9.5	9.2	8.6 - 9.8	9.4	8.8 - 10.0
	WBC (10^9/L)	3.01	2.71 - 3.31	6.95	6.53 - 7.37	17.98	16.90 - 19.06
	NEUT%	45.0	36.0 - 54.0	48.2	41.0 - 55.4	53.0	45.1 - 61.0
	LYMPH%	33.7	20.2 - 47.2	29.3	23.4 - 35.2	23.8	19.0 - 28.6
	MONO%	11.8	2.4 - 21.2	12.0	7.2 - 16.8	11.5	8.1 - 15.0
	EO%	9.5	6.7 - 12.4	10.6	7.4 - 13.8	11.7	8.8 - 14.6
	BASO%	62.9	44.0 - 81.8	67.0	46.9 - 87.1	72.9	54.7 - 91.1
	NEUT# (10^9/L)	1.36	1.09 - 1.63	3.35	2.85 - 3.85	9.53	8.10 - 10.96
	LYMPH# (10^9/L)	1.02	0.61 - 1.43	2.03	1.62 - 2.44	4.28	3.42 - 5.14
	MONO# (10^9/L)	0.35	0.07 - 0.63	0.84	0.34 - 1.34	2.06	1.24 - 2.88
	EO# (10^9/L)	0.29	0.20 - 0.38	0.73	0.51 - 0.95	2.11	1.58 - 2.64
	BASO# (10^9/L)	1.89	1.32 - 2.46	4.66	3.26 - 6.06	13.11	9.83 - 16.39
	NRBC# (10^9/L)	0.15	0.08 - 0.23	0.44	0.31 - 0.57	1.10	0.77 - 1.43
	NRBC% (/100 WBC)	5.3	4.2 - 6.4	6.7	5.4 - 8.0	6.5	5.2 - 7.8
	PLT-O (10^9/L)	58	32 - 84	217	184 - 250	494	420 - 568
	RET# (10^{12}/L)	0.1557	0.1090 - 0.2024	0.1329	0.0930 - 0.1728	0.0650	0.0455 - 0.0845
	RET%	6.95	4.87 - 9.04	3.09	2.16 - 4.02	1.26	0.88 - 1.64
	IRF (%)	29.7	9.7 - 49.7	27.2	7.2 - 47.2	23.2	3.2 - 43.2
	[a]IG #	0.32	0.29 - 0.35	0.79	0.59 - 0.99	2.27	1.59 - 2.95
	[a]IG %	10.6	7.4 - 13.8	11.4	8.6 - 14.3	12.6	7.6 - 17.6
	[b]HPC #	0.013	0.011 - 0.015	0.034	0.031 - 0.037	0.093	0.084 - 0.102
	[c]RET-HE (pg)	24.4	17.1 - 31.7	24.9	18.7 - 31.1	25.6	15.4 - 35.8
	[d]IPF %	21.600	18.360 - 24.840	22.100	18.785 - 25.415	22.600	19.210 - 25.990

[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.

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.

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Mundelein, IL

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HEMATOLOGY CONTROL FOR SYSMEX XE 2100 ANALYZERS

CLOSED MODE ASSAY

Expiration Date: 2010-04-26	Quality Control Data Due Date #1: 15-Mar-10	Quality Control Data Due Date #2: 26-Apr-10

Lot Number:		00340810			00340811			00340812		
Control:		L1:Level 1			L2:Level 2			L3:Level 3		
PARAMETERS		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE		MEAN	EXPECTED RANGE	
CLOSED	RBC (10^{12}/L)	2.24	2.11 - 2.37		4.30	4.09 - 4.52		5.16	4.90 - 5.42	
	HGB (g/dL)	5.5	5.2 - 5.8		11.9	11.3 - 12.5		15.8	15.0 - 16.6	
	HCT (%)	16.5	15.3 - 17.7		34.1	32.1 - 36.1		44.4	41.7 - 47.1	
	MCV (fL)	73.7	64.6 - 83.8		79.3	71.0 - 88.5		86.0	77.0 - 96.0	
	MCH (pg)	24.6	21.8 - 27.7		27.6	25.0 - 30.6		30.5	27.7 - 33.8	
	MCHC (g/dL)	33.3	29.3 - 38.0		34.8	31.3 - 39.0		35.5	31.9 - 39.7	
	PLT (10^9/L)	52	26 - 78		206	175 - 237		456	387 - 524	
	RDW-SD (fL)	44.1	39.7 - 48.5		44.3	39.9 - 48.7		44.5	40.1 - 49.0	
	RDW-CV (%)	16.3	14.7 - 17.9		15.3	13.8 - 16.8		14.6	13.1 - 16.1	
	MPV (fL)	8.8	8.1 - 9.5		9.2	8.6 - 9.8		9.4	8.8 - 10.0	
	WBC (10^9/L)	2.92	2.48 - 3.36		6.60	6.01 - 7.20		17.62	16.21 - 19.03	
	NEUT%	44.7	35.8 - 53.6		48.5	41.2 - 55.8		52.4	44.5 - 60.3	
	LYMPH%	33.9	20.3 - 47.4		28.9	23.1 - 34.7		24.3	19.4 - 29.1	
	MONO%	12.0	2.4 - 21.6		12.0	7.2 - 16.7		11.3	7.9 - 14.7	
	EO%	9.4	6.6 - 12.3		10.6	7.4 - 13.8		12.0	9.0 - 15.0	
	BASO%	63.4	44.4 - 82.5		65.6	45.9 - 85.3		71.4	53.6 - 89.3	
	NEUT# (10^9/L)	1.30	1.04 - 1.57		3.20	2.72 - 3.68		9.23	7.85 - 10.62	
	LYMPH# (10^9/L)	0.99	0.59 - 1.39		1.91	1.53 - 2.29		4.28	3.42 - 5.14	
	MONO# (10^9/L)	0.35	0.07 - 0.63		0.79	0.32 - 1.26		2.00	1.20 - 2.80	
	EO# (10^9/L)	0.28	0.19 - 0.36		0.70	0.49 - 0.91		2.11	1.58 - 2.64	
	BASO# (10^9/L)	1.85	1.30 - 2.41		4.33	3.03 - 5.63		12.59	9.44 - 15.73	
	NRBC# (10^9/L)	0.15	0.07 - 0.22		0.43	0.30 - 0.56		1.09	0.76 - 1.42	
	NRBC% (/100 WBC)	5.2	4.2 - 6.3		6.6	5.3 - 7.9		6.4	5.1 - 7.7	
	PLT-O (10^9/L)	55	28 - 83		213	181 - 245		484	412 - 557	
	RET# (10^{12}/L)	0.1557	0.1090 - 0.2024		0.1329	0.0930 - 0.1728		0.0650	0.0455 - 0.0845	
	RET%	6.95	4.87 - 9.04		3.09	2.16 - 4.02		1.26	0.88 - 1.64	
	IRF (%)	29.7	9.7 - 49.7		27.2	7.2 - 47.2		23.2	3.2 - 43.2	
	[a]IG #	0.32	0.29 - 0.35		0.79	0.59 - 0.99		2.27	1.59 - 2.95	
	[a]IG %	10.6	7.4 - 13.8		11.4	8.6 - 14.3		12.6	7.6 - 17.6	
	[b]HPC #	0.013	0.011 - 0.015		0.034	0.031 - 0.037		0.093	0.084 - 0.102	
	[c]RET-HE (pg)	24.4	17.1 - 31.7		24.9	18.7 - 31.1		25.6	15.4 - 35.8	
	[d]IPF %	21.600	18.360 - 24.840		22.100	18.785 - 25.415		22.600	19.210 - 25.990	

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