



e-CHECK™ (XE)

**HEMATOLOGY CONTROL FOR SYSMEX XE 2100 ANALYZERS
OPEN MODE ASSAY**

Expiration Date: 2008-12-08		Quality Control Data Due Date #1: 27-Oct-08				Quality Control Data Due Date #2: 8-Dec-08				
Lot Number:		82610810			82610811			82610812		
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)	2.28	2.19	- 2.37	4.31	4.18	- 4.44	5.26	5.11	- 5.42
	HGB (g/dL)	5.7	5.5	- 5.9	12.6	12.2	- 13.0	16.6	16.1	- 17.1
	HCT (%)	17.1	16.2	- 17.9	36.0	34.4	- 37.7	46.4	44.3	- 48.5
	MCV (fL)	74.9	68.4	- 82.0	83.5	77.5	- 90.0	88.2	81.8	- 95.1
	MCH (pg)	25.0	23.1	- 27.1	29.2	27.5	- 31.0	31.6	29.8	- 33.6
	MCHC (g/dL)	33.4	30.5	- 36.6	34.9	32.4	- 37.7	35.9	33.3	- 38.7
	PLT (10 ⁹ /L)	51	30	- 71	204	182	- 227	498	453	- 543
	RDW-SD (fL)	43.1	38.8	- 47.4	42.9	38.6	- 47.2	42.7	38.4	- 47.0
	RDW-CV (%)	15.8	14.2	- 17.4	14.1	12.7	- 15.5	13.4	12.0	- 14.7
	MPV (fL)	9.3	8.5	- 10.0	9.5	9.0	- 10.1	9.7	9.1	- 10.3
	WBC (10 ⁹ /L)	3.02	2.72	- 3.33	7.10	6.68	- 7.53	18.00	16.92	- 19.08
	NEUT%	42.3	33.8	- 50.7	47.7	40.6	- 54.9	52.6	44.7	- 60.5
	LYMPH%	36.9	22.1	- 51.7	30.3	24.3	- 36.4	24.2	19.4	- 29.1
	MONO%	12.1	2.4	- 21.7	11.5	6.9	- 16.1	11.7	8.2	- 15.3
	EO%	8.8	6.1	- 11.4	10.4	7.3	- 13.5	11.4	8.6	- 14.3
	BASO%	62.7	43.9	- 81.6	68.4	47.8	- 88.9	73.5	55.1	- 91.9
	NEUT# (10 ⁹ /L)	1.28	1.02	- 1.54	3.39	2.88	- 3.90	9.47	8.05	- 10.89
	LYMPH# (10 ⁹ /L)	1.12	0.67	- 1.56	2.16	1.72	- 2.59	4.36	3.49	- 5.23
	MONO# (10 ⁹ /L)	0.37	0.07	- 0.66	0.82	0.33	- 1.31	2.11	1.27	- 2.96
	EO# (10 ⁹ /L)	0.26	0.19	- 0.34	0.74	0.52	- 0.96	2.06	1.54	- 2.57
	BASO# (10 ⁹ /L)	1.90	1.33	- 2.47	4.86	3.40	- 6.31	13.23	9.92	- 16.54
	NRBC# (10 ⁹ /L)	0.15	0.07	- 0.22	0.43	0.30	- 0.55	0.93	0.65	- 1.21
	NRBC% (/100 WBC)	5.1	4.1	- 6.2	6.4	5.1	- 7.7	5.5	4.4	- 6.5
	PLT-O (10 ⁹ /L)	54	30	- 79	208	177	- 239	508	432	- 585
	RET# (10 ¹² /L)	0.1466	0.1026	- 0.1905	0.1259	0.0881	- 0.1636	0.0573	0.0401	- 0.0745
	RET%	6.43	4.50	- 8.36	2.92	2.04	- 3.79	1.09	0.76	- 1.42
	IRF (%)	17.7	0.0	- 37.7	13.9	0.0	- 33.9	11.3	0.0	- 31.3
	^a IG #	0.30	0.27	- 0.33	0.79	0.60	- 0.99	2.25	1.57	- 2.92
	^a IG %	9.98	6.99	- 12.98	11.17	8.38	- 13.96	12.51	7.51	- 17.51
	^b HPC #	0.014	0.012	- 0.016	0.036	0.032	- 0.039	0.100	0.090	- 0.111
^c RET-HE (pg)	25.07	17.55	- 32.59	25.51	19.13	- 31.89	26.58	15.95	- 37.21	
^d IPF %	21.689	18.436	- 24.942	21.480	18.258	- 24.702	22.495	19.121	- 25.869	

^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.



**HEMATOLOGY CONTROL FOR SYSMEX XE 2100 ANALYZERS
CLOSED MODE ASSAY**

Expiration Date: 2008-12-08		Quality Control Data Due Date #1: 27-Oct-08			Quality Control Data Due Date #2: 8-Dec-08				
Lot Number:		82610810		82610811		82610812			
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)	2.28	2.14 - 2.42	4.31	4.10 - 4.53	5.26	5.00 - 5.53		
	HGB (g/dL)	5.7	5.4 - 6.0	12.6	12.0 - 13.2	16.6	15.8 - 17.5		
	HCT (%)	17.1	15.9 - 18.3	36.0	33.9 - 38.2	46.4	43.7 - 49.2		
	MCV (fL)	74.9	65.7 - 85.3	83.5	74.8 - 93.2	88.2	79.0 - 98.4		
	MCH (pg)	25.0	22.2 - 28.2	29.2	26.4 - 32.2	31.6	28.6 - 35.0		
	MCHC (g/dL)	33.4	29.3 - 38.1	34.9	31.3 - 39.0	35.9	32.1 - 40.0		
	PLT (10 ⁹ /L)	49	25 - 74	196	167 - 226	463	394 - 533		
	RDW-SD (fL)	43.1	38.8 - 47.4	42.9	38.6 - 47.2	42.7	38.4 - 47.0		
	RDW-CV (%)	15.8	14.2 - 17.4	14.1	12.7 - 15.5	13.4	12.0 - 14.7		
	MPV (fL)	9.3	8.5 - 10.0	9.5	9.0 - 10.1	9.7	9.1 - 10.3		
	WBC (10 ⁹ /L)	2.93	2.49 - 3.37	6.75	6.14 - 7.36	17.64	16.23 - 19.05		
	NEUT%	42.1	33.7 - 50.5	48.1	40.9 - 55.3	52.0	44.2 - 59.8		
	LYMPH%	36.9	22.1 - 51.7	30.0	24.0 - 36.0	24.7	19.8 - 29.7		
	MONO%	12.4	2.5 - 22.4	11.4	6.8 - 15.9	11.6	8.1 - 15.1		
	EO%	8.6	6.0 - 11.1	10.5	7.4 - 13.7	11.7	8.8 - 14.6		
	BASO%	63.4	44.4 - 82.4	66.9	46.8 - 87.0	72.0	54.0 - 90.0		
	NEUT# (10 ⁹ /L)	1.23	0.99 - 1.48	3.24	2.76 - 3.73	9.17	7.80 - 10.55		
	LYMPH# (10 ⁹ /L)	1.08	0.65 - 1.51	2.03	1.62 - 2.43	4.36	3.49 - 5.23		
	MONO# (10 ⁹ /L)	0.37	0.07 - 0.66	0.77	0.31 - 1.23	2.05	1.23 - 2.87		
	EO# (10 ⁹ /L)	0.25	0.18 - 0.33	0.71	0.50 - 0.92	2.06	1.54 - 2.57		
	BASO# (10 ⁹ /L)	1.86	1.30 - 2.42	4.52	3.16 - 5.87	12.70	9.53 - 15.88		
	NRBC# (10 ⁹ /L)	0.15	0.07 - 0.22	0.42	0.29 - 0.54	0.92	0.65 - 1.20		
	NRBC% (/100 WBC)	5.1	4.1 - 6.1	6.3	5.0 - 7.5	5.4	4.3 - 6.5		
	PLT-O (10 ⁹ /L)	52	26 - 77	203	173 - 234	498	423 - 573		
	RET# (10 ¹² /L)	0.1466	0.1026 - 0.1905	0.1259	0.0881 - 0.1636	0.0573	0.0401 - 0.0745		
	RET%	6.43	4.50 - 8.36	2.92	2.04 - 3.79	1.09	0.76 - 1.42		
	IRF (%)	17.7	0.0 - 37.7	13.9	0.0 - 33.9	11.3	0.0 - 31.3		
	^a IG #	0.30	0.27 - 0.33	0.79	0.60 - 0.99	2.25	1.57 - 2.92		
	^a IG %	9.98	6.99 - 12.98	11.17	8.38 - 13.96	12.51	7.51 - 17.51		
	^b HPC #	0.014	0.012 - 0.016	0.036	0.032 - 0.039	0.100	0.090 - 0.111		
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