



e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XE-5000™ and XE-2100™ ANALYZERS

OPEN MODE ASSAY

Expiration Date:		2020-04-13		Quality Control Data Due Date #1: 02-Mar-20		Quality Control Data Due Date #2: 13-Apr-20	
Lot Number:		00220810		00220811		00220812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.31	2.22 - 2.40	4.40	4.27 - 4.53	5.31	5.15 - 5.47	
HGB (g/dL)	5.6	5.4 - 5.8	12.3	11.9 - 12.7	16.5	16.0 - 17.0	
HCT (%)	17.3	16.3 - 18.3	36.2	34.4 - 38.0	47.0	44.7 - 49.4	
MCV (fL)	74.9	70.4 - 79.4	82.3	77.4 - 87.2	88.5	84.1 - 92.9	
MCH (pg)	24.2	23.0 - 25.4	28.0	26.9 - 29.1	31.1	29.9 - 32.3	
MCHC (g/dL)	32.4	29.8 - 35.0	34.0	31.6 - 36.4	35.1	32.6 - 37.6	
PLT (10 ⁹ /L)	56	43 - 69	230	207 - 253	556	512 - 600	
RDW-SD (fL)	45.3	41.2 - 49.4	45.4	41.3 - 49.5	45.1	41.0 - 49.2	
RDW-CV (%)	16.7	15.4 - 18.0	15.3	14.4 - 16.2	14.2	13.3 - 15.1	
MPV (fL)	8.8	7.7 - 9.9	9.2	8.5 - 9.9	9.4	8.7 - 10.1	
WBC (10 ⁹ /L)	2.97	2.61 - 3.33	6.95	6.32 - 7.58	18.01	16.57 - 19.45	
WBC-D (10 ⁹ /L)	2.84	2.50 - 3.18	6.34	5.77 - 6.91	16.75	15.24 - 18.26	
NEUT%	42.9	36.9 - 48.9	47.9	43.1 - 52.7	51.0	45.9 - 56.1	
LYMPH%	38.2	31.3 - 45.1	32.7	27.8 - 37.6	29.0	24.7 - 33.4	
MONO%	9.4	4.3 - 14.5	8.8	5.4 - 12.2	9.2	5.6 - 12.8	
EO%	9.0	5.6 - 12.4	10.3	6.5 - 14.1	10.7	6.8 - 14.6	
BASO%	61.1	54.4 - 67.8	65.5	60.9 - 70.1	69.4	66.6 - 72.2	
NEUT# (10 ⁹ /L)	1.28	1.02 - 1.54	3.33	2.83 - 3.83	9.18	7.99 - 10.37	
LYMPH# (10 ⁹ /L)	1.14	0.88 - 1.40	2.27	1.84 - 2.70	5.22	4.33 - 6.11	
MONO# (10 ⁹ /L)	0.28	0.12 - 0.44	0.61	0.35 - 0.87	1.65	0.99 - 2.31	
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.72	0.44 - 1.00	1.93	1.22 - 2.64	
BASO# (10 ⁹ /L)	1.82	1.49 - 2.15	4.55	3.96 - 5.14	12.50	11.25 - 13.75	
NRBC# (10 ⁹ /L)	0.14	0.06 - 0.22	0.42	0.28 - 0.56	1.05	0.82 - 1.28	
NRBC% (/100 WBC)	5.1	2.3 - 7.9	6.4	4.3 - 8.5	6.2	4.9 - 7.5	
PLT-O (10 ⁹ /L)	58	38 - 78	226	188 - 264	550	468 - 633	
RET# (10 ¹² /L)	0.1387	0.0957 - 0.1817	0.1019	0.0713 - 0.1325	0.0521	0.0375 - 0.0667	
RET%	5.99	4.31 - 7.67	2.32	1.69 - 2.95	0.98	0.64 - 1.32	
IRF (%)	31.4	5.3 - 57.5	27.6	2.2 - 53.0	21.4	1.1 - 41.7	
IG (#)	0.30	0.23 - 0.38	0.79	0.62 - 0.96	2.16	1.73 - 2.59	
IG (%)	10.2	8.1 - 12.3	11.3	9.2 - 13.4	12.0	9.7 - 14.3	
HPC (#)	0.012	0.008 - 0.016	0.029	0.022 - 0.036	0.082	0.062 - 0.103	
RET-He (pg)	23.4	20.1 - 26.7	24.3	20.9 - 27.7	26.1	21.9 - 30.3	
IPF (%)	21.7	17.6 - 25.8	21.8	17.7 - 25.9	22.0	17.8 - 26.2	

*Not all parameters are available on all analyzer models

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PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.31	2.22 - 2.40	4.40	4.27 - 4.53	5.23	5.07 - 5.39	
HGB (g/dL)	5.6	5.4 - 5.9	12.2	11.9 - 12.6	16.3	15.8 - 16.8	
HCT (%)	17.3	16.3 - 18.3	36.2	34.4 - 38.0	47.0	44.7 - 49.4	
MCV (fL)	74.9	70.4 - 79.4	82.3	77.4 - 87.2	89.9	85.4 - 94.4	
MCH (pg)	24.4	23.2 - 25.6	27.8	26.7 - 28.9	31.2	30.0 - 32.4	
MCHC (g/dL)	32.5	29.9 - 35.1	33.8	31.4 - 36.2	34.8	32.4 - 37.2	
PLT (10 ⁹ /L)	56	43 - 69	225	203 - 248	517	476 - 558	
RDW-SD (fL)	45.3	41.2 - 49.4	45.4	41.3 - 49.5	45.1	41.0 - 49.2	
RDW-CV (%)	16.7	15.4 - 18.0	15.3	14.4 - 16.2	14.2	13.3 - 15.1	
MPV (fL)	8.8	7.7 - 9.9	9.2	8.5 - 9.9	9.4	8.7 - 10.1	
WBC (10 ⁹ /L)	2.88	2.53 - 3.23	6.53	5.94 - 7.12	17.47	16.07 - 18.87	
WBC-D (10 ⁹ /L)	2.75	2.42 - 3.08	6.15	5.60 - 6.70	15.75	14.33 - 17.16	
NEUT%	43.1	37.1 - 49.1	47.9	43.1 - 52.7	50.6	45.5 - 55.7	
LYMPH%	38.2	31.3 - 45.1	32.9	28.0 - 37.8	29.0	24.7 - 33.4	
MONO%	9.7	4.5 - 14.9	8.6	5.2 - 12.0	9.4	5.7 - 13.1	
EO%	9.0	5.6 - 12.4	10.6	6.7 - 14.5	11.0	7.0 - 15.0	
BASO%	61.8	55.0 - 68.6	66.2	61.6 - 70.8	70.1	67.3 - 72.9	
NEUT# (10 ⁹ /L)	1.24	0.99 - 1.49	3.13	2.66 - 3.60	8.83	7.68 - 9.98	
LYMPH# (10 ⁹ /L)	1.10	0.85 - 1.35	2.15	1.74 - 2.56	5.06	4.20 - 5.92	
MONO# (10 ⁹ /L)	0.28	0.12 - 0.44	0.56	0.32 - 0.80	1.65	0.99 - 2.31	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.69	0.42 - 0.96	1.93	1.22 - 2.64	
BASO# (10 ⁹ /L)	1.78	1.46 - 2.10	4.32	3.76 - 4.88	12.25	11.03 - 13.48	
NRBC# (10 ⁹ /L)	0.13	0.06 - 0.20	0.40	0.27 - 0.53	1.04	0.81 - 1.27	
NRBC% (/100 WBC)	5.1	2.3 - 7.9	6.4	4.3 - 8.5	6.2	4.9 - 7.5	
PLT-O (10 ⁹ /L)	58	38 - 78	226	188 - 264	534	453 - 614	
RET# (10 ¹² /L)	0.1387	0.0957 - 0.1817	0.1019	0.0713 - 0.1325	0.0521	0.0375 - 0.0667	
RET%	5.99	4.31 - 7.67	2.32	1.69 - 2.95	0.98	0.64 - 1.32	
IRF (%)	31.4	5.3 - 57.5	27.6	2.2 - 53.0	21.4	1.1 - 41.7	
IG (#)	0.29	0.22 - 0.36	0.79	0.62 - 0.96	2.16	1.73 - 2.59	
IG (%)	10.2	8.1 - 12.3	11.3	9.2 - 13.4	12.0	9.7 - 14.3	
HPC (#)	0.012	0.008 - 0.016	0.029	0.022 - 0.036	0.082	0.062 - 0.103	
RET-He (pg)	23.4	20.1 - 26.7	24.3	20.9 - 27.7	26.1	21.9 - 30.3	
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