



e-CHECK™ (XE)

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

OPEN MODE ASSAY

Expiration Date:	2020-02-17		Quality Control Data Due Date #1: 06-Jan-20		Quality Control Data Due Date #2: 17-Feb-20	
Lot Number:	93320810		93320811		93320812	
Control:	L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE
RBC (10 ¹² /L)	2.29	2.20 - 2.38	4.38	4.25 - 4.51	5.30	5.14 - 5.46
HGB (g/dL)	5.7	5.5 - 6.0	12.2	11.9 - 12.6	16.5	16.0 - 17.0
HCT (%)	17.5	16.5 - 18.6	35.6	33.8 - 37.4	46.9	44.6 - 49.2
MCV (fL)	76.4	71.8 - 81.0	81.3	76.4 - 86.2	88.5	84.1 - 92.9
MCH (pg)	25.1	23.8 - 26.4	27.9	26.8 - 29.0	31.2	30.0 - 32.4
MCHC (g/dL)	32.8	30.2 - 35.4	34.3	31.9 - 36.7	35.2	32.7 - 37.7
PLT (10 ⁹ /L)	58	45 - 71	232	209 - 255	554	510 - 598
RDW-SD (fL)	47.4	43.1 - 51.7	44.9	40.9 - 48.9	44.2	40.2 - 48.2
RDW-CV (%)	17.1	15.7 - 18.5	15.3	14.4 - 16.2	13.9	13.1 - 14.7
MPV (fL)	9.2	8.0 - 10.4	9.6	8.8 - 10.4	9.7	9.0 - 10.4
WBC (10 ⁹ /L)	2.94	2.59 - 3.29	6.71	6.11 - 7.31	17.73	16.31 - 19.15
WBC-D (10 ⁹ /L)	2.76	2.43 - 3.09	6.24	5.68 - 6.80	16.81	15.30 - 18.32
NEUT%	41.9	36.0 - 47.8	47.9	43.1 - 52.7	51.5	46.4 - 56.7
LYMPH%	38.6	31.7 - 45.5	32.7	27.8 - 37.6	28.3	24.1 - 32.5
MONO%	9.9	4.6 - 15.2	9.3	5.7 - 12.9	8.6	5.2 - 12.0
EO%	9.1	5.6 - 12.6	9.8	6.2 - 13.4	11.5	7.4 - 15.6
BASO%	60.4	53.8 - 67.0	66.2	61.6 - 70.8	70.1	67.3 - 72.9
NEUT# (10 ⁹ /L)	1.23	0.98 - 1.48	3.21	2.73 - 3.69	9.14	7.95 - 10.33
LYMPH# (10 ⁹ /L)	1.13	0.87 - 1.39	2.19	1.77 - 2.61	5.02	4.17 - 5.87
MONO# (10 ⁹ /L)	0.29	0.13 - 0.45	0.62	0.36 - 0.88	1.52	0.91 - 2.13
EO# (10 ⁹ /L)	0.27	0.16 - 0.38	0.66	0.40 - 0.92	2.03	1.28 - 2.78
BASO# (10 ⁹ /L)	1.78	1.46 - 2.10	4.44	3.86 - 5.02	12.43	11.19 - 13.67
NRBC# (10 ⁹ /L)	0.14	0.06 - 0.22	0.44	0.29 - 0.59	1.08	0.84 - 1.32
NRBC% (/100 WBC)	5.1	2.3 - 7.9	7.0	4.7 - 9.3	6.5	5.1 - 7.9
PLT-O (10 ⁹ /L)	61	40 - 82	228	189 - 267	552	469 - 635
RET# (10 ¹² /L)	0.1341	0.0925 - 0.1757	0.1041	0.0729 - 0.1353	0.0504	0.0363 - 0.0645
RET%	5.85	4.21 - 7.49	2.38	1.74 - 3.02	0.95	0.62 - 1.28
IRF (%)	41.0	7.0 - 75.0	36.9	3.0 - 70.8	24.6	1.2 - 48.0
IG (#)	0.29	0.22 - 0.36	0.76	0.60 - 0.92	2.12	1.70 - 2.54
IG (%)	9.9	7.8 - 12.0	11.3	9.2 - 13.4	12.0	9.7 - 14.3
HPC (#)	0.011	0.008 - 0.014	0.027	0.020 - 0.034	0.086	0.065 - 0.108
RET-He (pg)	24.2	20.8 - 27.6	25.2	21.7 - 28.7	27.1	22.8 - 31.4
IPF (%)	21.8	17.7 - 25.9	22.2	18.0 - 26.4	22.3	18.1 - 26.5

*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)	2.29	2.20 - 2.38	4.38	4.25 - 4.51	5.22	5.06 - 5.38
HGB (g/dL)	5.8	5.5 - 6.0	12.2	11.8 - 12.5	16.4	15.9 - 16.9
HCT (%)	17.5	16.5 - 18.6	35.6	33.8 - 37.4	46.9	44.6 - 49.2
MCV (fL)	76.4	71.8 - 81.0	81.3	76.4 - 86.2	89.8	85.3 - 94.3
MCH (pg)	25.2	23.9 - 26.5	27.8	26.7 - 28.9	31.4	30.1 - 32.7
MCHC (g/dL)	33.0	30.4 - 35.6	34.2	31.8 - 36.6	34.9	32.5 - 37.3
PLT (10 ⁹ /L)	58	45 - 71	227	204 - 250	515	474 - 556
RDW-SD (fL)	47.4	43.1 - 51.7	44.9	40.9 - 48.9	44.2	40.2 - 48.2
RDW-CV (%)	17.1	15.7 - 18.5	15.3	14.4 - 16.2	13.9	13.1 - 14.7
MPV (fL)	9.2	8.0 - 10.4	9.6	8.8 - 10.4	9.7	9.0 - 10.4
WBC (10 ⁹ /L)	2.85	2.51 - 3.19	6.31	5.74 - 6.88	17.20	15.82 - 18.58
WBC-D (10 ⁹ /L)	2.68	2.36 - 3.00	6.05	5.51 - 6.59	15.80	14.38 - 17.22
NEUT%	42.5	36.6 - 48.5	48.2	43.4 - 53.0	51.1	46.0 - 56.2
LYMPH%	38.2	31.3 - 45.1	32.8	27.9 - 37.7	28.3	24.1 - 32.5
MONO%	10.2	4.7 - 15.7	9.0	5.5 - 12.5	8.8	5.4 - 12.2
EO%	9.1	5.6 - 12.6	10.0	6.3 - 13.7	11.8	7.6 - 16.0
BASO%	61.1	54.4 - 67.8	66.9	62.2 - 71.6	70.8	68.0 - 73.6
NEUT# (10 ⁹ /L)	1.21	0.97 - 1.45	3.04	2.58 - 3.50	8.78	7.64 - 9.92
LYMPH# (10 ⁹ /L)	1.09	0.84 - 1.34	2.07	1.68 - 2.46	4.87	4.04 - 5.70
MONO# (10 ⁹ /L)	0.29	0.13 - 0.45	0.57	0.33 - 0.81	1.52	0.91 - 2.13
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.63	0.38 - 0.88	2.03	1.28 - 2.78
BASO# (10 ⁹ /L)	1.74	1.43 - 2.05	4.22	3.67 - 4.77	12.18	10.96 - 13.40
NRBC# (10 ⁹ /L)	0.13	0.06 - 0.20	0.42	0.28 - 0.56	1.07	0.83 - 1.30
NRBC% (/100 WBC)	5.1	2.3 - 7.9	7.0	4.7 - 9.3	6.5	5.1 - 7.9
PLT-O (10 ⁹ /L)	61	40 - 82	228	189 - 267	535	455 - 616
RET# (10 ¹² /L)	0.1341	0.0925 - 0.1757	0.1041	0.0729 - 0.1353	0.0504	0.0363 - 0.0645
RET%	5.85	4.21 - 7.49	2.38	1.74 - 3.02	0.95	0.62 - 1.28
IRF (%)	41.0	7.0 - 75.0	36.9	3.0 - 70.8	24.6	1.2 - 48.0
IG (#)	0.28	0.21 - 0.35	0.76	0.60 - 0.92	2.12	1.70 - 2.54
IG (%)	9.9	7.8 - 12.0	11.3	9.2 - 13.4	12.0	9.7 - 14.3
HPC (#)	0.011	0.008 - 0.014	0.027	0.020 - 0.034	0.086	0.065 - 0.108
RET-He (pg)	24.2	20.8 - 27.6	25.2	21.7 - 28.7	27.1	22.8 - 31.4
IPF (%)	21.8	17.7 - 25.9	22.2	18.0 - 26.4	22.3	18.1 - 26.5

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