



e-CHECK™ (XE)

HEMATOLOGY CONTROL FOR SYSMEX XE-5000™ and XE-2100™ ANALYZERS
OPEN MODE ASSAY

Expiration Date:		2024-06-03		Quality Control Data Due Date #1: 22-Apr-24		Quality Control Data Due Date #2: 03-Jun-24	
Lot Number:		40730810		40730811		40730812	
Control:		L1:Level 1		L2:Level 2		L3:Level 3	
PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.32	2.23 - 2.41	4.29	4.16 - 4.42	5.25	5.09 - 5.41	
HGB (g/dL)	5.9	5.6 - 6.1	12.2	11.8 - 12.6	16.6	16.1 - 17.1	
HCT (%)	17.6	16.6 - 18.7	35.5	33.7 - 37.3	47.0	44.6 - 49.3	
MCV (fL)	76.0	71.5 - 80.6	82.7	77.8 - 87.7	89.4	85.0 - 93.9	
MCH (pg)	25.2	24.0 - 26.5	28.4	27.3 - 29.6	31.6	30.3 - 32.8	
MCHC (g/dL)	33.2	30.5 - 35.9	34.3	31.9 - 36.8	35.3	32.8 - 37.8	
PLT (10 ⁹ /L)	57	44 - 70	221	199 - 243	528	486 - 570	
RDW-SD (fL)	43.9	39.9 - 47.8	44.1	40.1 - 48.0	45.6	41.5 - 49.7	
RDW-CV (%)	16.0	14.7 - 17.2	14.9	14.0 - 15.7	14.4	13.5 - 15.2	
MPV (fL)	8.9	7.8 - 10.1	9.2	8.4 - 9.9	9.3	8.7 - 10.0	
WBC (10 ⁹ /L)	3.20	2.81 - 3.58	7.30	6.64 - 7.95	18.06	16.62 - 19.51	
WBC-D (10 ⁹ /L)	2.94	2.58 - 3.29	6.73	6.12 - 7.33	17.21	15.66 - 18.76	
NEUT%	42.7	36.7 - 48.7	47.5	42.8 - 52.3	52.1	46.9 - 57.3	
LYMPH%	38.1	31.2 - 45.0	33.0	28.1 - 38.0	27.8	23.7 - 32.0	
MONO%	9.8	4.5 - 15.1	9.3	5.7 - 12.9	9.4	5.7 - 13.1	
EO%	9.4	5.8 - 12.9	10.1	6.4 - 13.9	10.7	6.8 - 14.5	
BASO%	61.7	54.9 - 68.4	66.0	61.4 - 70.6	71.2	68.4 - 74.1	
NEUT# (10 ⁹ /L)	1.37	1.09 - 1.64	3.47	2.95 - 3.99	9.40	8.18 - 10.63	
LYMPH# (10 ⁹ /L)	1.22	0.94 - 1.50	2.41	1.95 - 2.87	5.03	4.17 - 5.89	
MONO# (10 ⁹ /L)	0.31	0.14 - 0.49	0.68	0.39 - 0.96	1.70	1.02 - 2.38	
EO# (10 ⁹ /L)	0.30	0.18 - 0.42	0.74	0.45 - 1.03	1.93	1.21 - 2.64	
BASO# (10 ⁹ /L)	1.97	1.62 - 2.33	4.81	4.19 - 5.44	12.87	11.58 - 14.16	
NRBC# (10 ⁹ /L)	0.15	0.07 - 0.23	0.45	0.30 - 0.59	1.07	0.83 - 1.30	
NRBC% (/100 WBC)	4.9	2.2 - 7.6	6.5	4.4 - 8.7	6.3	5.0 - 7.6	
PLT-O (10 ⁹ /L)	61	40 - 81	227	189 - 266	538	457 - 618	
RET# (10 ¹² /L)	0.1380	0.0952 - 0.1807	0.1059	0.0742 - 0.1377	0.0507	0.0365 - 0.0649	
RET%	5.94	4.28 - 7.61	2.47	1.80 - 3.13	0.96	0.63 - 1.30	
IRF (%)	40.6	6.9 - 74.3	34.1	2.7 - 65.5	25.5	1.3 - 49.6	
IG (#)	0.32	0.24 - 0.40	0.81	0.64 - 0.98	2.22	1.78 - 2.67	
IG (%)	10.0	7.9 - 12.1	11.1	9.0 - 13.2	12.3	10.0 - 14.6	
HPC (#)	0.012	0.008 - 0.015	0.030	0.022 - 0.037	0.081	0.061 - 0.101	
RET-He (pg)	23.4	20.1 - 26.7	24.2	20.8 - 27.6	26.0	21.9 - 30.2	
IPF (%)	21.3	17.3 - 25.4	21.6	17.5 - 25.7	21.6	17.5 - 25.7	

*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)	2.32	2.23 - 2.41	4.29	4.16 - 4.42	5.17	5.02 - 5.33	
HGB (g/dL)	5.9	5.7 - 6.1	12.1	11.8 - 12.5	16.4	15.9 - 16.9	
HCT (%)	17.6	16.6 - 18.7	35.5	33.7 - 37.3	47.0	44.6 - 49.3	
MCV (fL)	76.0	71.5 - 80.6	82.7	77.8 - 87.7	90.8	86.2 - 95.3	
MCH (pg)	25.4	24.1 - 26.6	28.3	27.1 - 29.4	31.7	30.5 - 33.0	
MCHC (g/dL)	33.4	30.7 - 36.0	34.2	31.8 - 36.6	35.0	32.5 - 37.4	
PLT (10 ⁹ /L)	57	44 - 70	217	195 - 238	491	452 - 530	
RDW-SD (fL)	43.9	39.9 - 47.8	44.1	40.1 - 48.0	45.6	41.5 - 49.7	
RDW-CV (%)	16.0	14.7 - 17.2	14.9	14.0 - 15.7	14.4	13.5 - 15.2	
MPV (fL)	8.9	7.8 - 10.1	9.2	8.4 - 9.9	9.3	8.7 - 10.0	
WBC (10 ⁹ /L)	3.10	2.73 - 3.47	6.86	6.24 - 7.47	17.52	16.12 - 18.92	
WBC-D (10 ⁹ /L)	2.85	2.51 - 3.19	6.53	5.94 - 7.11	16.18	14.72 - 17.63	
NEUT%	42.7	36.7 - 48.7	47.6	42.8 - 52.3	51.8	46.6 - 57.0	
LYMPH%	38.1	31.2 - 45.0	33.2	28.2 - 38.2	27.7	23.6 - 31.9	
MONO%	9.8	4.5 - 15.1	9.0	5.5 - 12.6	9.5	5.8 - 13.2	
EO%	9.4	5.8 - 12.9	10.2	6.4 - 14.0	11.0	7.0 - 14.9	
BASO%	62.0	55.2 - 68.8	66.7	62.0 - 71.3	72.0	69.1 - 74.8	
NEUT# (10 ⁹ /L)	1.33	1.06 - 1.59	3.26	2.77 - 3.75	9.07	7.89 - 10.25	
LYMPH# (10 ⁹ /L)	1.18	0.91 - 1.45	2.28	1.84 - 2.71	4.85	4.03 - 5.68	
MONO# (10 ⁹ /L)	0.30	0.13 - 0.48	0.62	0.36 - 0.88	1.67	1.00 - 2.33	
EO# (10 ⁹ /L)	0.29	0.17 - 0.41	0.70	0.43 - 0.97	1.93	1.21 - 2.64	
BASO# (10 ⁹ /L)	1.92	1.58 - 2.27	4.57	3.98 - 5.17	12.61	11.35 - 13.87	
NRBC# (10 ⁹ /L)	0.15	0.07 - 0.23	0.45	0.30 - 0.59	1.07	0.83 - 1.30	
NRBC% (/100 WBC)	4.9	2.2 - 7.6	6.5	4.4 - 8.7	6.3	5.0 - 7.6	
PLT-O (10 ⁹ /L)	61	40 - 81	227	189 - 266	522	443 - 600	
RET# (10 ¹² /L)	0.1380	0.0952 - 0.1807	0.1059	0.0742 - 0.1377	0.0499	0.0359 - 0.0639	
RET%	5.94	4.28 - 7.61	2.47	1.80 - 3.13	0.96	0.63 - 1.30	
IRF (%)	40.6	6.9 - 74.3	34.1	2.7 - 65.5	25.5	1.3 - 49.6	
IG (#)	0.31	0.23 - 0.39	0.76	0.60 - 0.92	2.16	1.72 - 2.59	
IG (%)	10.0	7.9 - 12.1	11.1	9.0 - 13.2	12.3	10.0 - 14.6	
HPC (#)	0.012	0.008 - 0.015	0.030	0.022 - 0.037	0.081	0.061 - 0.101	
RET-He (pg)	23.4	20.1 - 26.7	24.2	20.8 - 27.6	26.0	21.9 - 30.2	
IPF (%)	21.3	17.3 - 25.4	21.6	17.5 - 25.7	21.6	17.5 - 25.7	

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