



HEMATOLOGY CONTROL FOR SYSMEX XE-2100™, XE-2100D™ and XE-2100L™ ANALYZERS
OPEN MODE ASSAY

Expiration Date:		2019-11-25		Quality Control Data Due Date #1: 14-Oct-19		Quality Control Data Due Date #2: 25-Nov-19	
Lot Number:		92470801		92470802		92470803	
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	4.35	4.22 - 4.48	5.22	5.06 - 5.38	
HGB (g/dL)	5.7	5.5 - 5.9	12.3	11.9 - 12.6	16.4	15.9 - 16.9	
HCT (%)	17.4	16.4 - 18.4	35.8	34.0 - 37.6	46.4	44.1 - 48.7	
MCV (fL)	75.3	70.8 - 79.8	82.3	77.4 - 87.2	88.9	84.5 - 93.3	
MCH (pg)	24.7	23.5 - 25.9	28.2	27.1 - 29.3	31.4	30.1 - 32.7	
MCHC (g/dL)	32.8	30.2 - 35.4	34.2	31.8 - 36.6	35.3	32.8 - 37.8	
PLT (10 ⁹ /L)	60	46 - 74	235	212 - 259	557	512 - 602	
RDW-SD (fL)	43.7	39.8 - 47.6	42.0	38.2 - 45.8	43.6	39.7 - 47.5	
RDW-CV (%)	16.1	14.8 - 17.4	14.0	13.2 - 14.8	13.6	12.8 - 14.4	
MPV (fL)	9.0	7.8 - 10.2	9.4	8.6 - 10.2	9.5	8.8 - 10.2	
WBC (10 ⁹ /L)	2.94	2.59 - 3.29	6.87	6.25 - 7.49	16.03	14.75 - 17.31	
NEUT%	42.6	36.6 - 48.6	47.0	42.3 - 51.7	51.2	46.1 - 56.3	
LYMPH%	39.8	32.6 - 47.0	33.9	28.8 - 39.0	29.5	25.1 - 33.9	
MONO%	8.8	4.0 - 13.6	8.9	5.4 - 12.4	8.1	4.9 - 11.3	
EO%	8.8	5.5 - 12.1	10.2	6.4 - 14.0	11.2	7.2 - 15.2	
BASO%	61.2	54.5 - 67.9	67.4	62.7 - 72.1	72.0	68.4 - 75.6	
NEUT# (10 ⁹ /L)	1.25	1.00 - 1.50	3.23	2.75 - 3.71	8.20	7.13 - 9.27	
LYMPH# (10 ⁹ /L)	1.17	0.90 - 1.44	2.33	1.89 - 2.77	4.73	3.93 - 5.53	
MONO# (10 ⁹ /L)	0.26	0.11 - 0.41	0.61	0.35 - 0.87	1.30	0.78 - 1.82	
EO# (10 ⁹ /L)	0.26	0.16 - 0.36	0.70	0.43 - 0.97	1.80	1.13 - 2.47	
BASO# (10 ⁹ /L)	1.80	1.48 - 2.12	4.63	4.03 - 5.23	11.54	10.39 - 12.69	
NRBC# (10 ⁹ /L)	2.90	2.41 - 3.39	6.68	5.81 - 7.55	16.76	14.75 - 18.77	
NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A	
PLT-O (10 ⁹ /L)	64	42 - 86	232	193 - 271	556	473 - 639	
RET# (10 ¹² /L)	0.1206	0.0832 - 0.1580	0.1061	0.0743 - 0.1379	0.0535	0.0385 - 0.0685	
RET%	5.23	3.77 - 6.69	2.44	1.78 - 3.10	1.03	0.67 - 1.39	
IRF (%)	44.1	7.5 - 80.7	38.7	3.1 - 74.3	27.5	1.4 - 53.6	
^a IG (#)	0.29	0.22 - 0.36	0.75	0.59 - 0.91	1.89	1.51 - 2.27	
^a IG (%)	9.82	7.76 - 11.88	10.91	8.84 - 12.98	11.82	9.57 - 14.07	
^b HPC (#)	0.011	0.008 - 0.014	0.029	0.022 - 0.036	0.082	0.062 - 0.103	
^c RET-He (pg)	23.4	20.1 - 26.7	24.3	20.9 - 27.7	25.8	21.7 - 29.9	
^d IPF (%)	21.8	17.7 - 25.9	21.8	17.7 - 25.9	21.6	17.5 - 25.7	

^aIG values are only available with the Sysmex XE-Series IG Master software.
^cRET-He values are only available with the Sysmex XE-Series RET Master software.

^bHPC values are only available with the Sysmex XE-Series HPC Master software.
^dIPF values are only available with the Sysmex XE-Series IPF Master software.

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PARAMETERS	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	MEAN	EXPECTED RANGE	
RBC (10 ¹² /L)	2.31	2.22 - 2.40	4.35	4.22 - 4.48	5.17	5.01 - 5.33	
HGB (g/dL)	5.7	5.5 - 6.0	12.2	11.8 - 12.6	16.2	15.7 - 16.7	
HCT (%)	17.4	16.4 - 18.4	35.8	34.0 - 37.6	46.4	44.1 - 48.7	
MCV (fL)	75.3	70.8 - 79.8	82.3	77.4 - 87.2	89.7	85.2 - 94.2	
MCH (pg)	24.8	23.6 - 26.0	28.0	26.9 - 29.1	31.4	30.1 - 32.7	
MCHC (g/dL)	32.9	30.3 - 35.5	34.1	31.7 - 36.5	34.9	32.5 - 37.3	
PLT (10 ⁹ /L)	60	46 - 74	230	207 - 253	524	482 - 566	
RDW-SD (fL)	43.3	39.4 - 47.2	41.6	37.9 - 45.3	43.6	39.7 - 47.5	
RDW-CV (%)	15.9	14.6 - 17.2	13.9	13.1 - 14.7	13.6	12.8 - 14.4	
MPV (fL)	9.0	7.8 - 10.2	9.4	8.6 - 10.2	9.5	8.8 - 10.2	
WBC (10 ⁹ /L)	2.85	2.51 - 3.19	6.46	5.88 - 7.04	15.71	14.45 - 16.97	
NEUT%	43.1	37.1 - 49.1	46.6	41.9 - 51.3	51.5	46.4 - 56.7	
LYMPH%	39.3	32.2 - 46.4	34.2	29.1 - 39.3	29.2	24.8 - 33.6	
MONO%	8.8	4.0 - 13.6	9.0	5.5 - 12.5	8.0	4.9 - 11.1	
EO%	8.8	5.5 - 12.1	10.2	6.4 - 14.0	11.3	7.2 - 15.4	
BASO%	61.4	54.6 - 68.2	68.1	63.3 - 72.9	72.0	68.4 - 75.6	
NEUT# (10 ⁹ /L)	1.23	0.98 - 1.48	3.01	2.56 - 3.46	8.08	7.03 - 9.13	
LYMPH# (10 ⁹ /L)	1.12	0.86 - 1.38	2.21	1.79 - 2.63	4.59	3.81 - 5.37	
MONO# (10 ⁹ /L)	0.25	0.11 - 0.39	0.58	0.34 - 0.82	1.26	0.76 - 1.76	
EO# (10 ⁹ /L)	0.25	0.15 - 0.35	0.66	0.40 - 0.92	1.78	1.12 - 2.44	
BASO# (10 ⁹ /L)	1.75	1.44 - 2.07	4.40	3.83 - 4.97	11.31	10.18 - 12.44	
NRBC# (10 ⁹ /L)	2.87	2.38 - 3.36	6.41	5.58 - 7.24	16.59	14.60 - 18.58	
NRBC% (/100 WBC)	100.0	N/A - N/A	100.0	N/A - N/A	100.0	N/A - N/A	
PLT-O (10 ⁹ /L)	65	43 - 87	232	193 - 271	539	458 - 620	
RET# (10 ¹² /L)	0.1182	0.0816 - 0.1548	0.1050	0.0735 - 0.1365	0.0532	0.0383 - 0.0681	
RET%	5.13	3.69 - 6.57	2.42	1.77 - 3.07	1.02	0.66 - 1.38	
IRF (%)	41.9	7.1 - 76.7	38.7	3.1 - 74.3	28.6	1.4 - 55.8	
^a IG (#)	0.28	0.21 - 0.35	0.71	0.56 - 0.86	1.83	1.46 - 2.20	
^a IG (%)	9.82	7.76 - 11.88	10.91	8.84 - 12.98	11.82	9.57 - 14.07	
^b HPC (#)	0.011	0.008 - 0.014	0.029	0.022 - 0.036	0.082	0.062 - 0.103	
^c RET-He (pg)	22.9	19.7 - 26.1	23.8	20.5 - 27.1	25.3	21.3 - 29.3	
^d IPF (%)	21.8	17.7 - 25.9	21.8	17.7 - 25.9	21.6	17.5 - 25.7	

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^cRET-He values are only available with the Sysmex XE-Series RET Master software.

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^dIPF values are only available with the Sysmex XE-Series IPF Master software.

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