

Parameter		WBC	RBC	HGB	HCT	MCV	MCH	MCHC	PLT
Instrument \ Unit		x10 ³ mm ³	x10 ⁶ mm ³	g/dl	%	fl	pg	g/dl	x10 ³ mm ³
Sysmex X Series		5.4	4.23	13.7	38.5	91.0	32.4	35.6	209
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.7	3.93	12.7	34.5	83.0	29.4	32.6	169
Upper Limit		6.1	4.53	14.7	42.5	99.0	35.4	38.6	249
Sysmex KX21-K4500-XP100 & 300		4.9	4.51	13.0	39.0	86.5	28.8	33.3	222
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.21	12.0	35.0	78.5	25.8	30.3	182
Upper Limit		5.6	4.81	14.0	43.0	94.5	31.8	36.3	262
Sysmex K1000 – K800		5.0	4.40	13.1	38.3	87.1	29.8	34.2	216
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.3	4.10	12.1	34.3	79.1	26.8	31.2	176
Upper Limit		5.7	4.70	14.1	42.3	95.1	32.8	37.2	256
Nihon Kohden (Celltac)		4.9	4.38	13.4	39.1	89.3	30.6	34.3	181
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.08	12.4	35.1	81.3	27.6	31.3	141
Upper Limit		5.6	4.68	14.4	43.1	97.3	33.6	37.3	221
Abbott (Cell Dyn)		5.1	4.31	13.2	38.8	90.0	30.6	34.0	209
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.4	4.01	12.2	34.8	82.0	27.6	31.0	169
Upper Limit		5.8	4.61	14.2	42.8	98.0	33.6	37.0	249
Convergent(3&5 Part diff)		5.2	4.30	13.5	38.7	90.0	31.4	35.0	214
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.5	4.00	12.5	34.7	82.0	28.4	32.0	174
Upper Limit		5.9	4.60	14.5	42.7	98.0	34.4	38.0	254
Mindray (BC - 6 Series)		5.2	4.33	13.5	41.3	95.4	31.2	32.7	219
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.5	4.03	12.5	37.3	87.4	28.2	29.7	179
Upper Limit		5.9	4.63	14.5	45.3	103.4	34.2	35.7	259
Mindray (BC - 5 Series)		4.9	4.41	13.3	40.1	90.9	30.2	33.2	217
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.11	12.3	36.1	82.9	27.2	30.2	177
Upper Limit		5.6	4.71	14.3	44.1	98.9	33.2	36.2	257
Mindray (BC-2800, 3000, 3600)		4.9	4.40	13.0	39.0	88.6	29.5	33.3	216
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.10	12.0	35.0	80.6	26.5	30.3	176
Upper Limit		5.6	4.70	14.0	43.0	96.6	32.5	36.3	256
Erma		5.1	4.33	13.1	38.5	88.9	30.3	34.0	218
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.4	4.03	12.1	34.5	80.9	27.3	31.0	178
Upper Limit		5.8	4.63	14.1	42.5	96.9	33.3	37.0	258
Orphee - Mythic 18		5.0	4.29	13.3	38.6	90.0	31.0	34.5	221
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.3	3.99	12.3	34.6	82.0	27.0	31.5	181
Upper Limit		5.7	4.59	14.3	42.6	98.0	34.0	37.5	261
Excell 22 & 18		5.2	4.28	13.5	38.9	90.9	31.5	34.7	211
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.5	3.98	12.5	34.9	82.9	28.5	31.7	171
Upper Limit		5.9	4.58	14.5	42.9	98.9	34.5	37.7	251
Dirui (3 & 5 part diff)		5.0	4.31	13.1	38.4	89.1	30.4	34.1	213
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.3	4.01	12.1	34.4	81.1	27.4	31.1	173
Upper Limit		5.7	4.61	14.1	42.4	97.1	33.4	37.1	253
Medonic & M – Series		5.0	4.33	13.0	38.6	89.1	30.0	33.7	217
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.3	4.03	12.0	34.6	81.1	27.0	30.7	177
Upper Limit		5.7	4.63	14.0	42.6	97.1	33.0	36.7	257
Swelab & α – Series		4.8	4.35	13.1	38.7	89.0	30.1	33.9	215
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.1	4.05	12.1	34.7	81.0	27.1	30.9	175
Upper Limit		5.5	4.65	14.1	42.7	97.0	33.1	36.9	255
MS9		4.9	4.38	13.0	38.5	88.0	29.7	33.8	216
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.08	12.0	34.5	80.0	26.7	30.8	176
Upper Limit		5.6	4.68	14.0	42.5	96.0	32.7	36.8	256
Diatron (Abacus)		4.9	4.31	13.0	38.3	88.9	30.2	33.9	212
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.01	12.0	34.3	80.9	27.2	30.9	172
Upper Limit		5.6	4.61	14.0	42.3	96.9	33.2	36.9	252
Hycel		4.9	4.40	12.9	38.7	88.0	29.3	33.3	207
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.10	11.9	34.7	80.0	27.3	30.3	167
Upper Limit		5.6	4.70	13.9	42.7	96.0	33.3	36.3	247
ABX Micros		4.9	4.33	13.0	38.4	88.7	30.0	33.9	211
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.03	12.0	34.4	80.7	27.0	30.9	171
Upper Limit		5.6	4.63	14.0	42.4	96.7	33.0	36.9	251
ABX Pentra		5.1	4.29	13.4	38.6	90.0	31.2	34.7	216
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.4	3.99	12.4	34.6	82.0	28.2	31.7	176
Upper Limit		5.8	4.59	14.4	42.6	98.0	34.2	37.7	256
Coulter - Helena		4.8	4.17	12.8	38.0	91.1	30.7	33.7	201
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.1	3.87	11.8	34.0	83.1	27.7	30.7	161
Upper Limit		5.5	4.47	13.8	42.0	99.1	33.7	36.7	241
Diagon (D - Cell 60 & 5D)		4.9	4.33	13.0	38.5	88.9	30.0	33.8	217
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.2	4.03	12.0	34.5	80.9	27.0	30.8	177
Upper Limit		5.6	4.63	14.0	42.5	96.9	33.0	36.8	257
Hiperion(B - Cell 60)		5.1	4.29	13.3	38.6	90.0	31.0	34.5	215
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.4	3.99	12.3	34.6	82.0	28.0	31.5	175
Upper Limit		5.8	4.59	14.3	42.6	98.0	34.0	37.5	255
Technicon H1 & H3		4.8	4.22	12.7	38.3	90.8	30.1	33.2	198
Limit Range		±0.7	±0.3	±1.0	±4.0	±8.0	±3.0	±3.0	±40
Lower Limit		4.1	3.92	11.7	34.3	82.8	27.1	30.2	158
Upper Limit		5.5	4.52	13.7	42.3	98.8	33.1	36.2	238