

Parameter	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	PLT
Unit	x10 ³ mm ³	x10 ⁶ mm ³	g/dl	%	fl	pg	g/dl	x10 ³ mm ³
Instrument								
Dirui (3 & 5 part diff)	5.1	4.14	13.2	37.3	90.1	31.9	35.4	224
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.89	12.3	34.3	85.1	28.9	32.4	184
Upper Limit	5.7	4.39	14.1	40.3	95.1	34.9	38.4	264
Medonic & M – Series	5.1	4.19	13.1	37.7	90.0	31.3	34.8	231
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.94	12.2	34.7	85.0	28.3	31.8	191
Upper Limit	5.7	4.44	14.0	40.7	95.0	34.3	37.8	271
Swelab & α – Series	5.2	4.21	13.1	37.3	88.6	31.1	35.1	220
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.96	12.2	34.3	83.6	28.1	32.1	180
Upper Limit	5.8	4.46	14.0	40.3	93.6	34.1	38.1	260
MS9	5.2	4.18	13.1	37.1	88.8	31.3	35.3	227
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.93	12.2	34.1	83.8	28.3	32.3	187
Upper Limit	5.8	4.43	14.0	40.1	93.8	34.3	38.3	267
Diatron (Abacus)	5.1	4.18	13.0	37.0	88.5	31.1	35.1	219
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.93	12.1	34.0	83.5	28.1	32.1	179
Upper Limit	5.7	4.43	13.9	40.0	93.5	34.1	38.1	259
Hycel	5.2	4.17	13.0	36.3	87.1	31.2	35.8	209
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.92	12.1	33.3	82.1	28.2	32.8	169
Upper Limit	5.8	4.42	13.9	39.3	92.1	34.2	38.8	249

Parameter	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	PLT
Unit	x10 ³ mm ³	x10 ⁶ mm ³	g/dl	%	fl	pg	g/dl	x10 ³ mm ³
Instrument								
Sysmex X Series	5.4	4.07	13.7	38.0	93.4	33.7	36.1	222
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.8	3.82	12.8	35.0	88.4	30.7	33.1	182
Upper Limit	6.0	4.32	14.6	41.0	98.4	36.7	39.1	262
Sysmex KX21-K4500 -XP100 & 300	5.2	4.25	13.1	38.3	90.1	30.8	34.2	233
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	4.00	12.2	35.3	85.1	27.8	31.2	193
Upper Limit	5.8	4.50	14.0	41.3	95.1	33.8	37.2	273
Sysmex K1000 – K800	5.3	4.20	13.1	37.8	90.0	31.2	34.7	221
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.7	3.95	12.2	34.8	85.0	28.2	31.7	181
Upper Limit	5.9	4.45	14.0	40.8	95.0	34.2	37.7	261
Nihon Kohden (Celltac)	5.1	4.12	13.3	37.9	92.0	32.3	35.1	197
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.87	12.4	34.9	87.0	29.3	32.1	157
Upper Limit	5.7	4.37	14.2	40.9	97.0	35.3	38.1	237
Abbott (Cell Dyn)	5.2	4.17	13.1	37.3	89.5	31.4	35.1	217
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.92	12.2	34.3	84.5	28.4	32.1	177
Upper Limit	5.8	4.42	14.0	40.3	94.5	34.4	38.1	257
Convergent (3 & 5 Part diff)	5.3	4.11	13.4	37.5	91.2	32.6	35.7	225
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.7	3.86	12.1	34.5	86.2	29.6	32.7	185
Upper Limit	5.9	4.36	13.9	40.5	96.2	35.6	38.7	265

Parameter	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	PLT
Unit	x10 ³ mm ³	x10 ⁶ mm ³	g/dl	%	fl	pg	g/dl	x10 ³ mm ³
Instrument								
ABX Micros	5.2	4.15	13.1	37.8	91.1	31.6	34.7	191
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.90	12.2	34.8	86.1	28.6	31.7	151
Upper Limit	5.8	4.40	14.0	40.8	96.1	34.6	37.7	231
ABX Pentra	5.3	4.16	13.3	38.0	91.4	32.0	35.0	222
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.7	3.91	12.4	35.0	86.4	29.0	32.0	182
Upper Limit	5.9	4.41	14.2	41.0	96.4	35.0	38.0	262
Coulter - Helena	5.0	4.01	12.9	36.0	89.8	32.2	35.8	198
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.4	3.76	12.0	33.0	84.8	29.2	32.8	158
Upper Limit	5.6	4.26	13.8	39.0	94.8	35.2	38.8	238
Diagon (D-Cell 60 & 5D)	5.2	4.17	13.1	38.0	91.1	31.4	34.5	219
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.92	12.2	35.0	86.1	28.4	31.5	179
Upper Limit	5.8	4.42	14.0	41.0	96.1	34.4	37.5	259
Hiperion(B-Cell 60)	5.2	4.15	13.3	37.7	90.8	32.1	35.3	223
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.90	12.4	34.7	85.8	29.1	32.3	183
Upper Limit	5.8	4.40	14.2	40.7	95.8	35.1	38.3	263
Technicon H1 & H3	5.1	4.10	13.2	36.7	89.5	32.2	36.0	207
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.85	12.3	33.7	84.5	29.2	33.0	167
Upper Limit	5.7	4.35	14.1	39.7	94.5	35.2	39.0	247

Parameter	WBC	RBC	HGB	HCT	MCV	MCH	MCHC	PLT
Unit	x10 ³ mm ³	x10 ⁶ mm ³	g/dl	%	fl	pg	g/dl	x10 ³ mm ³
Mindray (BC- 6 Series)	5.4	4.19	13.6	39.7	94.8	32.5	34.3	220
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.8	3.94	12.7	36.7	89.8	29.5	31.3	180
Upper Limit	6.0	4.44	14.5	42.7	99.8	35.5	37.3	260
Mindray (BC- 5 Series)	5.4	4.21	13.3	38.3	91.0	31.6	34.7	227
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.8	3.96	12.4	35.3	86.0	28.6	31.7	187
Upper Limit	6.0	4.46	14.2	41.3	96.0	34.6	37.7	267
Mindray (BC-2800, 3000, 3600)	5.2	4.22	13.2	38.0	90.1	31.3	34.7	230
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.6	3.97	12.3	35.0	85.1	28.3	31.7	190
Upper Limit	5.8	4.47	14.1	41.0	95.1	34.3	37.7	270
Erma	5.1	4.19	13.2	38.0	90.7	31.5	34.7	221
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.94	12.3	35.0	85.7	28.5	31.7	181
Upper Limit	5.7	4.44	14.1	41.0	95.7	34.5	37.7	261
Orphee - Mythic 18	5.1	4.17	13.3	37.6	90.2	31.9	35.4	217
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.5	3.92	12.4	34.6	85.2	28.9	32.4	177
Upper Limit	5.7	4.42	14.2	40.6	95.2	34.9	38.4	257
Excell 22 & 18	5.3	4.12	13.4	37.7	91.5	32.5	35.5	230
Limit Range	±0.6	±0.25	±0.9	±3.0	±5.0	±3.0	±3.0	±40
Lower Limit	4.7	3.87	12.5	34.7	86.5	29.5	32.5	190
Upper Limit	5.9	4.37	14.3	40.7	96.5	35.5	38.5	270