

REF : 3433-3434-3435-3466-3467-3468-3502-3503-3504

LOT : 211

: 2015-05-19

**Coulter Counter Models (with III Diff. option; for AcT see separate table)**

**MELET MSS9** NOTE : Please refer to next page for Erma Values

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.1	0.4	7.7	0.8	20.4	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.54	0.20	5.61	0.25
Hb g/dl	5.9	0.4	13.4	0.5	17.9	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.6	1.5	38.8	2.4	52.0	3.0
Hct l/l	0.176	0.015	0.388	0.024	0.520	0.030
MCV fl	75.6	4.0	85.4	4.0	92.6	4.0
MCH pg	25.5	2.4	29.5	2.8	31.9	2.8
MCH fmol	1.58	0.16	1.83	0.17	1.98	0.19
MCHC g/dl	33.7	3.0	34.6	3.0	34.5	3.0
MCHC mmol/l	20.9	2.0	21.5	2.0	21.4	2.0
RDW %	16.0	3.0	15.6	3.0	15.0	3.0
Plts 10 <sup>9</sup> /l	65	20	243	35	506	60
MPV fl	8.0	2.0	8.3	2.0	8.2	2.0
PDW %	17.2	3.0	16.4	3.0	16.8	3.0
LYMP %	57.2	6.0	32.4	4.0	16.2	4.0
MONO %	11.3	11.3	8.4	8.4	5.0	5.0
GRAN %	31.5	5.0	59.2	5.0	78.8	5.0
LYMP #	1.2	0.2	2.5	0.4	3.3	0.9
MONO #	0.2	0.2	0.6	0.6	1.0	1.0
GRAN #	0.7	0.2	4.6	0.4	16.1	1.1

**ABX Roche: Micros 60, Micros ES 60; Bayer: Advia 60**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.2	0.4	7.3	0.8	18.9	2.0
RBC 10 <sup>12</sup> /l	2.34	0.15	4.50	0.20	5.60	0.25
Hb g/dl	5.6	0.4	13.4	0.5	17.9	0.6
Hb mmol/l	3.5	0.3	8.3	0.4	11.1	0.5
Hct %	16.4	1.5	37.3	2.4	51.3	3.0
Hct l/l	0.164	0.015	0.373	0.024	0.513	0.030
MCV fl	70.2	4.0	83.0	4.0	91.6	4.0
MCH pg	24.1	2.4	29.7	2.8	31.9	2.8
MCH fmol	1.49	0.16	1.85	0.17	1.98	0.19
MCHC g/dl	34.3	3.0	35.8	3.0	34.8	3.0
MCHC mmol/l	21.3	2.0	22.2	2.0	21.6	2.0
RDW %	14.6	3.0	16.0	3.0	15.4	3.0
Plts 10 <sup>9</sup> /l	71	20	240	35	473	60
MPV fl	7.6	2.0	7.9	2.0	7.7	2.0
LYMP %	49.5	6.0	28.8	4.0	14.8	4.0
MONO %	10.8	10.8	8.3	8.3	3.9	3.9
GRAN %	39.7	5.0	63.0	5.0	81.3	5.0
LYMP #	1.1	0.2	2.1	0.4	2.8	0.9
MONO #	0.2	0.2	0.6	0.6	0.7	0.7
GRAN #	0.9	0.2	4.6	0.4	15.4	1.1

**Abbott Cell-Dyn: 1300, 1500, 1600, 1700, 1800 series**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.3	0.4	7.4	0.8	18.3	2.0
RBC 10 <sup>12</sup> /l	2.36	0.15	4.50	0.20	5.50	0.25
Hb g/dl	5.8	0.4	13.2	0.5	17.7	0.6
Hb mmol/l	3.6	0.3	8.2	0.4	11.0	0.5
Hct %	17.8	1.5	38.9	2.4	51.5	3.0
Hct l/l	0.178	0.015	0.389	0.024	0.515	0.030
MCV fl	75.6	4.0	86.4	4.0	93.6	4.0
MCH pg	24.7	2.4	29.3	2.8	32.2	2.8
MCH fmol	1.53	0.16	1.82	0.17	2.00	0.19
MCHC g/dl	32.7	3.0	34.0	3.0	34.4	3.0
MCHC mmol/l	20.3	2.0	21.1	2.0	21.4	2.0
Plts 10 <sup>9</sup> /l	61	20	238	35	493	60
MPV fl	8.9	2.0	8.8	2.0	8.4	2.0
LYMP %	57.2	6.0	32.4	4.0	16.2	4.0
MID %	11.3	11.3	8.4	8.4	5.0	5.0
GRAN %	31.5	5.0	59.2	5.0	78.8	5.0
LYMP #	1.3	0.2	2.4	0.4	3.0	0.9
MID #	0.3	0.3	0.6	0.6	0.9	0.9
GRAN #	0.7	0.2	4.4	0.4	14.4	1.1

**AVL (Contraves): AVL - 816**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
Please refer to Table Coulter Counters for CBC parameters						
LYMP %	61.8	6.0	38.6	4.0	19.2	4.0
MONO %	10.4	10.4	9.6	9.6	6.4	6.4
GRAN %	27.8	5.0	51.9	5.0	74.3	5.0
LYMP #	1.3	0.2	3.0	0.4	3.9	0.9
MONO #	0.2	0.2	0.7	0.7	1.3	1.3
GRAN #	0.6	0.2	4.0	0.4	15.2	1.1

**Coulter Counter: AcT diff, AcT diff 2**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.1	0.4	7.7	0.8	20.3	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.54	0.20	5.61	0.25
Hb g/dl	5.9	0.4	13.4	0.5	17.9	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.6	1.5	39.2	2.4	52.5	3.0
Hct l/l	0.176	0.015	0.392	0.024	0.525	0.030
MCV fl	75.6	4.0	86.4	4.0	93.6	4.0
MCH pg	25.5	2.4	29.5	2.8	31.9	2.8
MCH fmol	1.58	0.16	1.83	0.17	1.98	0.19
MCHC g/dl	33.7	3.0	34.2	3.0	34.1	3.0
MCHC mmol/l	20.9	2.0	21.2	2.0	21.2	2.0
RDW %	16.0	3.0	15.6	3.0	15.0	3.0
Plts 10 <sup>9</sup> /l	65	20	241	35	504	60
MPV fl	8.0	2.0	8.3	2.0	8.2	2.0
LYMP %	58.9	6.0	32.0	4.0	14.9	4.0
MONO %	8.5	8.5	6.8	6.8	4.1	4.1
GRAN %	32.6	5.0	61.2	5.0	81.0	5.0
LYMP #	1.2	0.2	2.5	0.4	3.0	0.9
MONO #	0.2	0.2	0.5	0.5	0.8	0.8
GRAN #	0.7	0.2	4.7	0.4	16.4	1.1

**Coulter Counter: AcT 8, AcT 10**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
Please refer to Table AcT Diff for CBC parameters						
LYMP %	45.3	6.0	23.9	4.0	10.4	4.0
LYMP #	0.9	0.2	1.9	0.4	2.1	0.8

**Nihon Kohden: Celtac and MEK series (not for 5-part diff)**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.1	0.4	7.7	0.8	20.4	2.0
RBC 10 <sup>12</sup> /l	2.31	0.15	4.54	0.20	5.53	0.25
Hb g/dl	6.0	0.4	13.7	0.5	18.6	0.6
Hb mmol/l	3.8	0.3	8.5	0.4	11.6	0.5
Hct %	17.5	1.5	39.4	2.4	53.9	3.0
Hct l/l	0.175	0.015	0.394	0.024	0.539	0.030
MCV fl	75.6	4.0	86.8	4.0	97.5	4.0
MCH pg	26.2	2.4	30.1	2.8	33.7	2.8
MCH fmol	1.62	0.16	1.87	0.17	2.09	0.19
MCHC g/dl	34.6	3.0	34.7	3.0	34.6	3.0
MCHC mmol/l	21.5	2.0	21.5	2.0	21.5	2.0
RDW %	14.9	3.0	15.0	3.0	14.2	3.0
Plts 10 <sup>9</sup> /l	66	20	247	35	526	60
MPV fl	8.0	2.0	7.2	2.0	6.7	2.0
LYMP %	61.0	8.0	33.7	4.0	19.0	4.0
MONO %	14.1	14.1	9.1	9.1	4.8	4.8
GRAN %	24.9	8.0	57.2	5.0	76.2	5.0
LYMP #	1.3	0.2	2.6	0.4	3.9	0.9
MONO #	0.3	0.3	0.7	0.7	1.0	1.0
GRAN #	0.5	0.4	4.4	0.4	15.6	1.1

**Danam/Drew Excel18=MWI BT2100, D3; Orpheo Mythic18; Abbott Emerald18**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.7	0.8	19.4	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.54	0.20	5.61	0.25
Hb g/dl	5.7	0.4	13.4	0.5	17.9	0.6
Hb mmol/l	3.6	0.3	8.3	0.4	11.1	0.5
Hct %	17.1	1.5	39.2	2.4	52.7	3.0
Hct l/l	0.171	0.015	0.392	0.024	0.527	0.030
MCV fl	73.4	4.0	86.4	4.0	94.0	4.0
MCH pg	24.6	2.4	29.5	2.8	31.9	2.8
MCH fmol	1.53	0.16	1.83	0.17	1.98	0.19
MCHC g/dl	33.5	3.0	34.2	3.0	34.0	3.0
MCHC mmol/l	20.8	2.0	21.2	2.0	21.1	2.0
RDW %	14.1	3.0	13.1	3.0	12.5	3.0
Plts 10 <sup>9</sup> /l	65	20	226	35	469	60
MPV fl	8.0	2.0	8.3	2.0	8.2	2.0
LYMP %	55.2	6.0	29.2	4.0	14.8	4.0
MONO %	10.30	10.23	5.30	5.24	3.00	2.94
GRAN %	34.5	5.0	65.5	5.0	82.2	5.0
LYMP #	1.1	0.2	2.2	0.4	2.9	0.9
MONO #	0.21	0.14	0.41	0.35	0.58	0.52
GRAN #	0.7	0.2	5.0	0.4	15.9	1.1

**AVL (Contraves): AVL - 818**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
Please refer to Table Coulter Counters for CBC parameters						
LYMP %	69.4	6.0	40.6	4.0	20.3	4.0
MONO %	9.1	9.1	8.9	8.9	6.1	6.1
GRAN %	21.5	5.0	50.4	5.0	73.6	5.0
LYMP #	1.5	0.2	3.1	0.4	4.1	0.9
MONO #	0.2	0.2	0.7	0.7	1.2	1.2
GRAN #	0.5	0.2	3.9	0.4	15.0	1.1



The devices as mentioned in this insert comply with the  
In Vitro Diagnostic Medical Devices Directive 98/79/EC.

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Diatron<sup>™</sup>: Abacus, Abacus 3, Abacus Junior, Arcus; Erba: Elite 3

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.5	7.7	0.8	20.8	2.0
RBC 10 <sup>12</sup> /l	2.38	0.15	4.65	0.20	5.89	0.25
Hb g/dl	6.0	0.4	13.6	0.5	18.5	0.6
Hb mmol/l	3.7	0.3	8.4	0.4	11.5	0.5
Hct %	18.3	1.5	41.3	2.4	57.3	3.0
Hct l/l	0.183	0.015	0.413	0.024	0.573	0.030
MCV fl	77.1	5.0	88.8	5.0	97.3	5.0
MCH pg	25.2	2.4	29.2	2.8	31.3	2.8
MCH fmol	1.56	0.16	1.81	0.17	1.94	0.19
MCHC g/dl	32.7	3.0	32.9	3.0	32.2	3.0
MCHC mmol/l	20.3	2.0	20.4	2.0	20.0	2.0
RDW-SD fl	55.1	5.0	59.7	5.0	63.5	5.0
RDW-CV %	15.8	3.0	14.8	3.0	14.4	3.0
Plts 10 <sup>9</sup> /l	65	20	243	35	486	60
MPV fl	8.0	2.0	8.6	2.0	8.6	2.0
PCT %	0.05	0.02	0.21	0.06	0.42	0.10
PCT ml/l	0.52	0.20	2.09	0.30	4.18	0.40
PDW-SD fl	12.1	2.5	12.5	2.5	13.0	2.5
PDW-CV %	35.3	5.0	36.9	5.0	38.4	5.0
LYMP %	53.3	6.0	30.4	4.0	12.9	4.0
MONO %	9.1	9.1	7.7	7.7	6.4	6.4
GRAN %	37.6	6.0	61.9	5.0	80.7	6.0
LYMP #	1.0	0.3	2.3	0.4	2.7	0.9
MONO #	0.3	0.3	0.6	0.6	1.3	1.3
GRAN #	0.6	0.2	4.8	0.4	16.8	1.1

\*\* JT Baker reagents CyMet Abacus+Diluid Abacus=Use Reagent Code 2 in service settings!

Medonic CA530, CA620

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.8	0.4	6.6	0.8	16.0	2.0
RBC 10 <sup>12</sup> /l	2.30	0.15	4.51	0.20	5.53	0.25
Hb g/dl	6.0	0.4	13.4	0.5	17.9	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	16.3	1.5	36.7	2.4	49.2	3.0
Hct l/l	0.163	0.015	0.367	0.024	0.492	0.030
MCV fl	70.9	4.0	81.3	4.0	88.9	4.0
MCH pg	26.2	2.4	29.7	2.8	32.4	2.8
MCH fmol	1.63	0.16	1.84	0.17	2.01	0.19
MCHC g/dl	37.0	3.0	36.6	3.0	36.4	3.0
MCHC mmol/l	22.9	2.0	22.7	2.0	22.6	2.0
RDW %	14.1	3.0	16.9	3.0	16.9	3.0
Plts 10 <sup>9</sup> /l	64	20	229	35	447	60
MPV fl	7.5	2.0	8.0	2.0	7.9	2.0
LYMP %	63.9	9.0	37.2	6.0	19.3	4.0
MONO %	9.1	9.1	10.3	10.3	7.7	7.7
GRAN %	27.0	5.0	52.5	9.0	73.0	10.0
LYMP #	1.2	0.2	2.5	0.4	3.1	0.9
MONO #	0.2	0.2	0.7	0.7	1.2	1.2
GRAN #	0.5	0.2	3.5	0.4	11.7	1.1

Innesco HM1060; Rayto RT-7600; HTI Micros CC 20 Plus

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.9	0.4	7.7	0.8	19.8	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.44	0.20	5.41	0.25
Hb g/dl	5.9	0.4	13.7	0.5	19.0	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.8	0.5
Hct %	17.6	1.5	39.2	2.4	52.5	3.0
Hct l/l	0.176	0.015	0.392	0.024	0.525	0.030
MCV fl	77.6	4.0	86.4	4.0	94.6	4.0
MCH pg	25.5	2.4	30.9	2.8	35.2	2.8
MCH fmol	1.58	0.2	1.87	0.2	2.18	0.2
MCHC g/dl	33.7	3.0	34.9	3.0	36.2	3.0
MCHC mmol/l	20.9	2.0	21.2	2.0	22.5	2.0
RDW-CV %	11.7	3.0	11.4	3.0	11.0	3.0
RDW-SD fl	34.8	5.0	40.1	5.0	43.5	5.0
Plts 10 <sup>9</sup> /l	57	20	231	35	504	60
MPV fl	9.9	2.0	9.6	2.0	9.2	2.0
PCT %	0.06	0.02	0.22	0.06	0.46	0.10
PCT ml/l	0.56	0.20	2.21	0.30	4.63	0.40
PDW %	9.0	3.0	12.1	3.0	12.8	3.0
LYMP %	51.9	8.0	28.3	5.0	12.4	4.0
MONO %	14.8	14.8	9.3	9.3	7.0	7.0
GRAN %	33.3	6.0	62.4	8.0	80.6	8.0
LYMP #	1.0	0.2	2.2	0.4	2.5	0.9
MONO #	0.3	0.3	0.7	0.7	1.4	1.4
GRAN #	0.6	0.2	4.8	0.8	16.0	1.1

Avantor BeneSphaera<sup>™</sup> H32


Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.9	0.4	7.7	0.8	19.8	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.44	0.20	5.41	0.25
Hb g/dl	5.9	0.4	13.7	0.5	19.0	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.8	0.5
Hct %	17.6	1.5	39.2	2.4	52.5	3.0
Hct l/l	0.176	0.015	0.392	0.024	0.525	0.030
MCV fl	77.6	4.0	86.4	4.0	94.6	4.0
MCH pg	25.5	2.4	30.9	2.8	35.2	2.8
MCH fmol	1.58	0.2	1.87	0.2	2.18	0.2
MCHC g/dl	33.7	3.0	34.9	3.0	36.2	3.0
MCHC mmol/l	20.9	2.0	21.2	2.0	22.5	2.0
RDW-CV %	11.7	3.0	11.4	3.0	11.0	3.0
RDW-SD fl	34.8	5.0	40.1	5.0	43.5	5.0
Plts 10 <sup>9</sup> /l	57	20	231	35	504	60
MPV fl	9.9	2.0	9.6	2.0	9.2	2.0
PCT %	0.06	0.02	0.22	0.06	0.46	0.10
PCT ml/l	0.56	0.20	2.21	0.30	4.63	0.40
PDW %	9.0	3.0	12.1	3.0	12.8	3.0
LYMP %	51.9	8.0	28.3	5.0	12.4	4.0
MONO %	14.8	14.8	9.3	9.3	7.0	7.0
GRAN %	33.3	6.0	62.4	8.0	80.6	8.0
LYMP #	1.0	0.2	2.2	0.4	2.5	0.9
MONO #	0.3	0.3	0.7	0.7	1.4	1.4
GRAN #	0.6	0.2	4.8	0.8	16.0	1.1

ERMA PCE-170, ERMAX-18, PCE-210

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.8	0.4	7.7	0.8	19.9	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.68	0.20	5.46	0.25
Hb g/dl	5.9	0.4	13.4	0.5	17.9	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.6	1.5	41.2	2.4	54.8	3.0
Hct l/l	0.176	0.015	0.412	0.024	0.548	0.030
MCV fl	75.6	4.0	88.1	4.0	100.4	4.0
MCH pg	25.5	2.4	28.6	2.8	32.8	2.8
MCH fmol	1.58	0.16	1.78	0.17	2.04	0.19
MCHC g/dl	33.7	3.0	32.5	3.0	32.7	3.0
MCHC mmol/l	20.9	2.0	20.2	2.0	20.3	2.0
RDW %	16.0	3.0	15.6	3.0	15.0	3.0
Plts 10 <sup>9</sup> /l	75	20	237	35	458	60
MPV fl	8.0	2.0	8.3	2.0	8.2	2.0
PDW %	17.2	3.0	16.4	3.0	16.8	3.0
LYMP %	56.9	9.0	32.4	4.0	16.2	4.0
MONO %	8.0	8.0	8.4	8.4	5.0	5.0
GRAN %	35.1	5.0	59.2	9.0	78.8	10.0
LYMP #	1.0	0.2	2.5	0.4	3.2	0.9
MONO #	0.2	0.2	0.6	0.6	1.0	1.0
GRAN #	0.6	0.2	4.6	0.4	15.7	1.1

Urit 2900 Plus

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.8	0.4	7.7	0.8	21.8	2.0
RBC 10 <sup>12</sup> /l	2.33	0.15	4.66	0.20	5.81	0.25
Hb g/dl	5.8	0.4	13.1	0.5	16.9	0.6
Hb mmol/l	3.6	0.3	8.1	0.4	10.5	0.5
Hct %	17.0	1.5	37.5	2.4	48.6	3.0
Hct l/l	0.170	0.015	0.375	0.024	0.486	0.030
MCV fl	73.1	4.0	80.4	4.0	83.6	4.0
MCH pg	25.0	2.4	28.1	2.8	29.1	2.8
MCH fmol	1.55	0.2	1.74	0.2	1.81	0.2
MCHC g/dl	34.2	3.0	35.0	3.0	34.8	3.0
MCHC mmol/l	21.2	2.0	21.7	2.0	21.6	2.0
RDW-CV %	14.5	3.0	14.6	3.0	14.7	3.0
RDW-SD fl	20.8	5.0	30.1	5.0	43.5	5.0
Plts 10 <sup>9</sup> /l	64	20	223	35	384	60
MPV fl	16.9	2.0	13.5	2.0	12.6	2.0
PCT %	0.11	0.02	0.30	0.06	0.48	0.10
PCT ml/l	1.08	0.20	3.00	0.30	4.84	0.40
PDW %	13.5	3.0	13.8	3.0	14.3	3.0
LYMP %	56.9	8.0	30.5	5.0	13.2	4.0
MONO %	8.0	8.0	6.1	6.1	4.3	4.3
GRAN %	35.1	6.0	63.4	8.0	82.5	8.0
LYMP #	1.0	0.2	2.3	0.4	2.9	0.9
MONO #	0.1	0.1	0.5	0.5	0.9	0.9
GRAN #	0.6	0.2	4.9	0.8	18.0	1.1

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**Mindray BC-3200, BC-3000CT**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.5	8.0	1.0	21.1	2.5
RBC 10 <sup>12</sup> /l	2.40	0.18	4.67	0.24	5.80	0.30
Hb g/dl	6.0	0.4	13.7	0.6	18.8	0.8
Hb mmol/l	3.7	0.3	8.5	0.4	11.7	0.5
Hct %	18.2	1.5	40.9	2.0	55.7	2.4
Hct l/l	0.182	0.015	0.409	0.020	0.557	0.024
MCV fl	76.0	5.0	87.5	5.0	96.0	5.0
MCH pg	25.0	2.5	29.3	2.5	32.4	2.5
MCH fmol	1.55	0.16	1.82	0.16	2.01	0.16
MCHC g/dl	32.9	3.0	33.5	3.0	33.8	3.0
MCHC mmol/l	20.5	2.0	20.8	2.0	20.9	2.0
RDW-CV	14.0	3.0	13.5	3.0	13.0	3.0
RDW-SD	35.0	6.0	38.0	6.0	40.0	8.0
Plts 10 <sup>9</sup> /l	75	20	248	40	503	60
MPV fl	8.3	3.0	8.1	3.0	7.7	3.0
LYMP %	55.0	12.0	28.5	8.0	13.0	6.0
MONO %	11.0	9.0	9.0	7.0	6.0	5.0
GRAN %	34.0	10.0	62.5	8.0	81.0	8.0
LYMP #	1.1	0.3	2.3	0.7	2.7	1.3
MONO #	0.2	0.2	0.7	0.6	1.3	1.1
GRAN #	0.7	0.3	5.0	0.7	17.1	1.7

**Mindray BC-2800, BC-2600, BC-2800Vet\*, BC-2600Vet\* (\*SW version 2.0 or higher)**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.5	7.8	1.0	20.7	2.5
RBC 10 <sup>12</sup> /l	2.30	0.18	4.57	0.24	5.62	0.30
Hb g/dl	6.0	0.4	13.7	0.6	19.0	0.8
Hb mmol/l	3.7	0.3	8.5	0.4	11.8	0.5
Hct %	17.5	1.5	39.8	2.0	53.7	2.4
Hct l/l	0.175	0.015	0.398	0.020	0.537	0.024
MCV fl	76.0	5.0	87.0	5.0	95.5	5.0
MCH pg	26.1	2.5	30.0	2.5	33.8	2.5
MCH fmol	1.62	0.16	1.86	0.16	2.10	0.16
MCHC g/dl	34.3	3.0	34.5	3.0	35.4	3.0
MCHC mmol/l	21.3	2.0	21.4	2.0	22.0	2.0
RDW-CV	16.0	3.0	15.0	3.0	14.5	3.0
RDW-SD	41.0	6.0	44.0	6.0	47.0	8.0
Plts 10 <sup>9</sup> /l	70	20	242	40	490	60
MPV fl	9.6	3.0	9.6	3.0	9.4	3.0
PCT %	0.06	0.05	0.22	0.10	0.45	0.20
PCT ml/l	0.60	0.50	2.20	1.00	4.50	2.00
PDW fl	15.0	3.0	14.8	3.0	14.7	3.0
LYMP %	58.5	10.0	31.0	8.0	14.5	7.0
MONO %	8.5	6.0	7.0	6.0	5.0	4.0
GRAN %	33.0	9.0	62.0	9.0	80.5	8.0
LYMP #	1.2	0.3	2.4	0.7	3.0	1.5
MONO #	0.2	0.2	0.5	0.5	1.0	0.8
GRAN #	0.7	0.2	4.8	0.7	16.7	1.7

**Mindray BC-3600, BC-3300**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.9	0.5	7.6	1.0	20.5	2.5
RBC 10 <sup>12</sup> /l	2.39	0.18	4.73	0.24	5.85	0.30
Hb g/dl	6.1	0.4	13.7	0.6	18.9	0.8
Hb mmol/l	3.8	0.3	8.5	0.4	11.7	0.5
Hct %	18.2	1.5	40.4	2.0	54.4	2.4
Hct l/l	0.182	0.015	0.404	0.020	0.544	0.024
MCV fl	76.0	5.0	85.5	5.0	93.0	5.0
MCH pg	25.5	2.5	29.0	2.5	32.3	2.5
MCH fmol	1.58	0.16	1.80	0.16	2.01	0.16
MCHC g/dl	33.6	3.0	33.9	3.0	34.7	3.0
MCHC mmol/l	20.8	2.0	21.0	2.0	21.6	2.0
RDW-CV	15.5	3.0	15.0	3.0	14.0	3.0
RDW-SD	34.0	8.0	39.0	8.0	41.0	8.0
Plts 10 <sup>9</sup> /l	70	20	254	40	535	60
MPV fl	8.8	3.0	8.9	3.0	8.8	3.0
PCT %	0.06	0.05	0.22	0.10	0.47	0.20
PCT ml/l	0.60	0.50	2.20	1.00	4.70	2.00
PDW fl	15.2	3.0	15.5	3.0	15.8	3.0
P-LCC	20.0	10.0	75.0	22.0	145.0	30.0
P-LCR	28.0	9.0	30.0	9.0	27.0	9.0
LYMP %	56.0	12.0	29.5	8.0	13.0	8.0
MONO %	12.0	8.0	9.0	6.0	6.0	4.0
GRAN %	32.0	9.0	61.5	8.0	81.0	8.0
LYMP #	1.1	0.3	2.2	0.6	2.7	1.7
MONO #	0.2	0.2	0.7	0.5	1.2	0.8
GRAN #	0.6	0.2	4.7	0.7	16.6	1.7

**Mindray BC-3000 Plus (s/n A75xxx) , BC-2900, BC-1800, Hemolux**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.5	8.0	1.0	20.7	2.5
RBC 10 <sup>12</sup> /l	2.41	0.18	4.71	0.24	5.80	0.30
Hb g/dl	6.0	0.4	13.8	0.6	18.8	0.8
Hb mmol/l	3.7	0.3	8.6	0.4	11.7	0.5
Hct %	18.6	1.5	41.4	2.0	55.7	2.4
Hct l/l	0.186	0.015	0.414	0.020	0.557	0.024
MCV fl	77.0	5.0	88.0	5.0	96.0	5.0
MCH pg	24.9	2.5	29.3	2.5	32.4	2.5
MCH fmol	1.55	0.16	1.82	0.16	2.01	0.16
MCHC g/dl	32.3	3.0	33.3	3.0	33.8	3.0
MCHC mmol/l	20.0	2.0	20.7	2.0	20.9	2.0
RDW-CV	15.5	3.0	15.0	3.0	14.5	3.0
RDW-SD	35.0	6.0	39.0	6.0	41.0	8.0
Plts 10 <sup>9</sup> /l	75	20	252	40	515	60
MPV fl	8.2	3.0	8.1	3.0	7.8	3.0
PCT %	0.06	0.05	0.20	0.10	0.40	0.20
PCT ml/l	0.60	0.50	2.00	1.00	4.00	2.00
PDW fl	16.7	3.0	16.3	3.0	16.2	3.0
LYMP %	56.0	12.0	29.0	8.0	13.0	6.0
MONO %	10.5	8.0	9.0	7.0	6.0	5.0
GRAN %	33.5	9.0	62.0	8.0	81.0	8.0
LYMP #	1.1	0.3	2.3	0.7	2.7	1.3
MONO #	0.2	0.2	0.7	0.6	1.2	1.0
GRAN #	0.7	0.2	5.0	0.7	16.8	1.7

**Mindray BC-3000 with CyMet Mindray CN-free (old models s/n A59xxx)**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.1	0.5	7.7	1.0	19.2	2.5
RBC 10 <sup>12</sup> /l	2.18	0.18	4.37	0.24	5.55	0.30
Hb g/dl **	6.1	0.4	14.3	0.6	19.3	0.8
Hb mmol/l **	3.8	0.3	8.9	0.4	12.0	0.5
Hct %	17.8	1.5	39.9	2.0	54.2	2.4
Hct l/l	0.178	0.015	0.399	0.020	0.542	0.024
MCV fl	81.6	5.0	91.4	5.0	97.6	5.0
MCH pg **	28.1	2.5	32.7	2.5	34.8	2.5
MCH fmol **	1.75	0.16	2.03	0.16	2.16	0.16
MCHC g/dl **	34.5	3.0	35.8	3.0	35.7	3.0
MCHC mmol/l **	21.4	2.0	22.2	2.0	22.1	2.0
RDW-CV	14.8	3.0	14.9	3.0	14.8	3.0
RDW-SD	43.1	6.0	48.5	6.0	51.4	8.0
Plts 10 <sup>9</sup> /l	72	20	225	40	462	60
MPV fl	8.7	3.0	9.1	3.0	8.7	3.0
LYMP %	57.2	12.0	29.4	8.0	13.7	6.0
MONO %	11.3	11.3	8.4	8.4	5.0	5.0
GRAN %	31.5	9.0	62.2	8.0	81.3	8.0
LYMP #	1.2	0.3	2.3	0.7	2.6	1.3
MONO #	0.2	0.2	0.6	0.6	1.0	1.0
GRAN #	0.7	0.2	4.8	0.7	15.6	1.7

**\*\* Mindray BC-3000 with CyMet Mindray (with CN) (old series s/n A59xxx)**

Parameters	Mean	Range ±	Mean	Range ±	Mean	Range ±
Hb g/dl	5.8	0.4	13.3	0.6	18.0	0.8
Hb mmol/l	3.6	0.3	8.3	0.4	11.2	0.5
MCH pg	26.7	2.5	30.4	2.5	32.5	2.5
MCH fmol	1.66	0.16	1.89	0.16	2.01	0.16
MCHC g/dl	32.8	3.0	33.3	3.0	33.3	3.0
MCHC mmol/l	20.3	2.0	20.7	2.0	20.6	2.0

**Mindray BC-2300, BC-2100**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	1.9	0.5	7.8	1.0	21.0	2.5
RBC 10 <sup>12</sup> /l	2.32	0.18	4.55	0.24	5.57	0.30
Hb g/dl	6.2	0.4	13.7	0.6	18.5	0.8
Hb mmol/l	3.8	0.3	8.5	0.4	11.5	0.5
Hct %	17.1	1.5	38.8	2.0	51.7	2.4
Hct l/l	0.171	0.015	0.388	0.020	0.517	0.024
MCV fl	73.5	5.0	85.3	5.0	92.9	5.0
MCH pg	26.6	2.5	30.2	2.5	33.1	2.5
MCH fmol	1.65	0.16	1.87	0.16	2.06	0.16
MCHC g/dl	36.2	3.0	35.4	3.0	35.7	3.0
MCHC mmol/l	22.5	1.9	21.9	1.9	22.1	1.9
RDW-CV	14.0	3.0	13.5	3.0	12.9	3.0
RDW-SD	33.0	8.0	36.9	8.0	38.3	8.0
Plts 10 <sup>9</sup> /l	61	20	236	40	514	60
MPV fl	10.4	3.0	10.4	3.0	10.2	3.0
PCT %	0.06	0.06	0.24	0.10	0.52	0.20
PCT ml/l	0.63	0.63	2.45	1.00	5.21	2.00
PDW fl	14.4	3.0	14.8	3.0	15.7	3.0
LYMP %	56.5	10.0	31.4	8.0	14.4	7.0
MONO %	10.4	10.4	8.8	8.8	7.0	7.0
GRAN %	33.1	9.0	59.8	9.0	78.7	8.0
LYMP #	1.1	0.2	2.5	0.7	3.0	1.5
MONO #	0.2	0.2	0.7	0.7	1.5	1.5
GRAN #	0.6	0.2	4.7	0.7	16.5	1.7