avantor

Assay values 3-Diff Controls
Combined US and SI Units

D0000803
Version 26.0

2ºC 8ºC IVD CE

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

LOT : 219

: 2017-05-19

Coulter Counter Models (with III Diff. option; for AcT see separate table)
MELET MS9 **NOTE : Please refer to next page for Erma Values**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.1	0.4	7.9	0.8	21.0	2.0
RBC 10^{12}/l	2.33	0.15	4.52	0.20	5.49	0.25
Hb g/dl	6.0	0.4	13.3	0.5	17.8	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.7	1.5	38.1	2.4	50.8	3.0
Hct l/l	0.177	0.015	0.381	0.024	0.508	0.030
MCV fl	76.1	4.0	84.4	4.0	92.6	4.0
MCH pg	25.9	2.4	29.4	2.8	32.5	2.8
MCH fmol	1.61	0.16	1.83	0.17	2.01	0.19
MCHC g/dl	34.0	3.0	34.9	3.0	35.0	3.0
MCHC mmol/l	21.1	2.0	21.6	2.0	21.7	2.0
RDW %	16.5	3.0	16.1	3.0	15.5	3.0
Plts 10^9/l	50	20	243	35	523	60
MPV fl	8.1	2.0	8.2	2.0	8.1	2.0
PDW %	17.2	3.0	16.4	3.0	16.8	3.0
LYMP %	56.2	6.0	32.9	4.0	16.2	4.0
MONO %	11.3	11.3	7.9	7.9	5.0	5.0
GRAN %	32.5	5.0	59.2	5.0	78.8	5.0
LYMP #	1.2	0.2	2.6	0.4	3.4	0.9
MONO #	0.2	0.2	0.6	0.6	1.1	1.1
GRAN #	0.7	0.2	4.7	0.4	16.5	1.1

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.2	0.4	7.4	0.8	19.5	2.0
RBC 10^{12}/l	2.34	0.15	4.48	0.20	5.49	0.25
Hb g/dl	5.7	0.4	13.3	0.5	17.8	0.6
Hb mmol/l	3.5	0.3	8.2	0.4	11.0	0.5
Hct %	16.5	1.5	36.7	2.4	50.2	3.0
Hct l/l	0.165	0.015	0.367	0.024	0.502	0.030
MCV fl	70.6	4.0	82.0	4.0	91.6	4.0
MCH pg	24.5	2.4	29.6	2.8	32.4	2.8
MCH fmol	1.52	0.16	1.84	0.17	2.01	0.19
MCHC g/dl	34.6	3.0	36.1	3.0	35.3	3.0
MCHC mmol/l	21.5	2.0	22.4	2.0	21.9	2.0
RDW %	15.1	3.0	16.5	3.0	15.9	3.0
Plts 10^9/l	54	20	240	35	489	60
MPV fl	7.7	2.0	7.8	2.0	7.6	2.0
LYMP %	48.6	6.0	29.2	4.0	14.8	4.0
MONO %	10.8	10.8	7.8	7.8	3.9	3.9
GRAN %	40.6	5.0	63.0	5.0	81.3	5.0
LYMP #	1.1	0.2	2.2	0.4	2.9	0.9
MONO #	0.2	0.2	0.6	0.6	0.8	0.8
GRAN #	0.9	0.2	4.7	0.4	15.8	1.1

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.3	0.4	7.6	0.8	18.9	2.0
RBC 10^{12}/l	2.36	0.15	4.48	0.20	5.38	0.25
Hb g/dl	5.9	0.4	13.1	0.5	17.6	0.6
Hb mmol/l	3.7	0.3	8.1	0.4	10.9	0.5
Hct %	18.0	1.5	38.2	2.4	50.4	3.0
Hct l/l	0.180	0.015	0.382	0.024	0.504	0.030
MCV fl	76.1	4.0	85.4	4.0	93.6	4.0
MCH pg	25.1	2.4	29.2	2.8	32.8	2.8
MCH fmol	1.56	0.16	1.81	0.17	2.03	0.19
MCHC g/dl	33.0	3.0	34.3	3.0	35.0	3.0
MCHC mmol/l	20.5	2.0	21.3	2.0	21.7	2.0
Plts 10^9/l	46	20	238	35	510	60
MPV fl	9.0	2.0	8.7	2.0	8.3	2.0
LYMP %	56.2	6.0	32.9	4.0	16.2	4.0
MID %	11.3	11.3	7.9	7.9	5.0	5.0
GRAN %	32.5	5.0	59.2	5.0	78.8	5.0
LYMP #	1.3	0.2	2.5	0.4	3.1	0.9
MID #	0.3	0.3	0.6	0.6	0.9	0.9
GRAN #	0.7	0.2	4.5	0.4	14.9	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 %	60.8	6.0	39.2	4.0	19.2	4.0
MONO %	10.4	10.4	9.0	9.0	6.4	6.4
GRAN %	28.9	5.0	51.8	5.0	74.3	5.0
LYMP #	1.3	0.2	3.1	0.4	4.0	0.9
MONO #	0.2	0.2	0.7	0.7	1.3	1.3
GRAN #	0.6	0.2	4.1	0.4	15.6	1.1

Coulter Counter: AcT diff, AcT diff 2

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.1	0.4	7.9	0.8	20.9	2.0
RBC 10^{12}/l	2.33	0.15	4.52	0.20	5.49	0.25
Hb g/dl	6.0	0.4	13.3	0.5	17.8	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.7	1.5	38.6	2.4	51.4	3.0
Hct l/l	0.177	0.015	0.386	0.024	0.514	0.030
MCV fl	76.1	4.0	85.4	4.0	93.6	4.0
MCH pg	25.9	2.4	29.4	2.8	32.5	2.8
MCH fmol	1.61	0.16	1.83	0.17	2.01	0.19
MCHC g/dl	34.0	3.0	34.5	3.0	34.7	3.0
MCHC mmol/l	21.1	2.0	21.4	2.0	21.5	2.0
RDW %	16.5	3.0	16.1	3.0	15.5	3.0
Plts 10^9/l	50	20	241	35	521	60
MPV fl	8.1	2.0	8.2	2.0	8.1	2.0
LYMP %	57.9	6.0	32.5	4.0	14.9	4.0
MONO %	8.5	8.5	6.3	6.3	4.1	4.1
GRAN %	33.6	5.0	61.2	5.0	81.0	5.0
LYMP #	1.2	0.2	2.6	0.4	3.1	0.9
MONO #	0.2	0.2	0.5	0.5	0.9	0.9
GRAN #	0.7	0.2	4.8	0.4	16.9	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 %	44.3	6.0	24.4	4.0	10.4	4.0
LYMP #	0.9	0.2	2.0	0.4	2.2	0.8

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.1	0.4	7.9	0.8	21.0	2.0
RBC 10^{12}/l	2.31	0.15	4.52	0.20	5.41	0.25
Hb g/dl	6.2	0.4	13.6	0.5	18.5	0.6
Hb mmol/l	3.8	0.3	8.4	0.4	11.5	0.5
Hct %	17.6	1.5	38.8	2.4	52.7	3.0
Hct l/l	0.176	0.015	0.388	0.024	0.527	0.030
MCV fl	76.1	4.0	85.8	4.0	97.5	4.0
MCH pg	26.6	2.4	30.0	2.8	34.3	2.8
MCH fmol	1.65	0.16	1.86	0.17	2.13	0.19
MCHC g/dl	35.0	3.0	35.0	3.0	35.2	3.0
MCHC mmol/l	21.7	2.0	21.7	2.0	21.8	2.0
RDW %	15.4	3.0	15.5	3.0	14.7	3.0
Plts 10^9/l	51	20	247	35	544	60
MPV fl	8.1	2.0	7.2	2.0	6.6	2.0
LYMP %	59.9	8.0	34.2	4.0	19.0	4.0
MONO %	14.1	14.1	8.6	8.6	4.8	4.8
GRAN %	26.0	8.0	57.2	5.0	76.2	5.0
LYMP #	1.3	0.2	2.7	0.4	4.0	0.9
MONO #	0.3	0.3	0.7	0.7	1.0	1.0
GRAN #	0.6	0.4	4.5	0.4	16.0	1.1

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.0	0.4	7.9	0.8	20.0	2.0
RBC 10^{12}/l	2.33	0.15	4.52	0.20	5.49	0.25
Hb g/dl	5.8	0.4	13.3	0.5	17.8	0.6
Hb mmol/l	3.6	0.3	8.3	0.4	11.1	0.5
Hct %	17.2	1.5	38.6	2.4	51.6	3.0
Hct l/l	0.172	0.015	0.386	0.024	0.516	0.030
MCV fl	73.8	4.0	85.4	4.0	94.0	4.0
MCH pg	25.0	2.4	29.4	2.8	32.5	2.8
MCH fmol	1.55	0.16	1.83	0.17	2.01	0.19
MCHC g/dl	33.9	3.0	34.5	3.0	34.5	3.0
MCHC mmol/l	21.0	2.0	21.4	2.0	21.4	2.0
RDW	14.6	3.0	13.5	3.0	13.0	3.0
Plts 10^9/l	50	20	226	35	485	60
MPV fl	8.1	2.0	8.2	2.0	8.1	2.0
LYMP %	54.2	6.0	29.7	4.0	14.8	4.0
MONO %	10.30	10.23	4.80	4.74	3.00	2.94
GRAN %	35.5	5.0	65.5	5.0	82.2	5.0
LYMP #	1.1	0.2	2.3	0.4	3.0	0.9
MONO #	0.21	0.14	0.38	0.32	0.60	0.54
GRAN #	0.7	0.2	5.2	0.4	16.4	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 %	68.2	6.0	41.3	4.0	20.3	4.0
MONO %	9.1	9.1	8.4	8.4	6.1	6.1
GRAN %	22.7	5.0	50.4	5.0	73.6	5.0
LYMP #	1.4	0.2	3.3	0.4	4.3	0.9
MONO #	0.2	0.2	0.7	0.7	1.3	1.3
GRAN #	0.5	0.2	4.0	0.4	15.5	1.1

avantor

Assay values 3-Diff Controls
Combined US and SI Units

D0000803
Version 26.0

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

LOT : 219

: 2017-05-19

Diatron: Abacus, Abacus 3, Abacus Junior, Arcus; Erba: Elite 3**
Human: HumaCount 30TS, HumaCount 80TS

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.0	0.5	7.9	0.8	21.4	2.0
RBC 10^{12}/l	2.38	0.15	4.63	0.20	5.76	0.25
Hb g/dl	6.1	0.4	13.5	0.5	18.4	0.6
Hb mmol/l	3.8	0.3	8.4	0.4	11.4	0.5
Hct %	18.5	1.5	40.7	2.4	56.1	3.0
Hct l/l	0.185	0.015	0.407	0.024	0.561	0.030
MCV fl	77.6	5.0	87.7	5.0	97.3	5.0
MCH pg	25.6	2.4	29.1	2.8	31.8	2.8
MCH fmol	1.59	0.16	1.81	0.17	1.98	0.19
MCHC g/dl	33.0	3.0	33.2	3.0	32.7	3.0
MCHC mmol/l	20.5	2.0	20.6	2.0	20.3	2.0
RDW-SD fl	57.2	5.0	60.9	5.0	65.6	5.0
RDW-CV %	16.2	3.0	15.3	3.0	14.9	3.0
Plts 10^9/l	50	20	243	35	503	60
MPV fl	8.1	2.0	8.5	2.0	8.5	2.0
PCT %	0.04	0.02	0.21	0.06	0.43	0.10
PCT ml/l	0.41	0.20	2.07	0.60	4.28	1.00
PDW-SD fl	12.3	2.5	12.4	2.5	12.8	2.5
PDW-CV %	35.3	5.0	36.9	5.0	38.4	5.0
LYMP %	52.3	6.0	30.9	4.0	12.9	4.0
MONO %	9.1	9.1	7.3	7.3	6.4	6.4
GRAN %	38.5	6.0	61.9	5.0	80.7	6.0
LYMP #	1.0	0.3	2.4	0.4	2.8	0.9
MONO #	0.3	0.3	0.6	0.6	1.4	1.4
GRAN #	0.7	0.2	4.9	0.4	17.3	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 10^9/l	1.8	0.4	6.8	0.8	16.6	2.0
RBC 10^{12}/l	2.30	0.15	4.49	0.20	5.41	0.25
Hb g/dl	6.1	0.4	13.3	0.5	17.8	0.6
Hb mmol/l	3.8	0.3	8.3	0.4	11.1	0.5
Hct %	16.4	1.5	36.0	2.4	48.1	3.0
Hct l/l	0.164	0.015	0.360	0.024	0.481	0.030
MCV fl	71.4	4.0	80.3	4.0	88.9	4.0
MCH pg	26.7	2.4	29.6	2.8	32.9	2.8
MCH fmol	1.65	0.16	1.84	0.17	2.04	0.19
MCHC g/dl	37.3	3.0	36.9	3.0	37.0	3.0
MCHC mmol/l	23.2	2.0	22.9	2.0	23.0	2.0
RDW %	14.6	3.0	17.4	3.0	17.4	3.0
Plts 10^9/l	49	20	229	35	464	60
MPV fl	7.6	2.0	7.9	2.0	7.8	2.0
LYMP %	62.9	9.0	37.7	6.0	19.3	4.0
MONO %	9.1	9.1	9.8	9.8	7.7	7.7
GRAN %	28.0	5.0	52.5	9.0	73.0	10.0
LYMP #	1.1	0.2	2.6	0.4	3.2	0.9
MONO #	0.2	0.2	0.7	0.7	1.3	1.3
GRAN #	0.5	0.2	3.6	0.4	12.1	1.1

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	1.9	0.4	7.9	0.8	20.4	2.0
RBC 10^{12}/l	2.33	0.15	4.42	0.20	5.29	0.25
Hb g/dl	6.0	0.4	13.6	0.5	18.9	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.7	0.5
Hct %	17.7	1.5	38.6	2.4	51.4	3.0
Hct l/l	0.177	0.015	0.386	0.024	0.514	0.030
MCV fl	78.1	4.0	85.4	4.0	94.6	4.0
MCH pg	25.9	2.4	30.8	2.8	35.8	2.8
MCH fmol	1.61	0.2	1.87	0.2	2.22	0.2
MCHC g/dl	34.0	3.0	35.2	3.0	36.8	3.0
MCHC mmol/l	21.1	2.0	21.4	2.0	22.8	2.0
RDW-CV %	12.2	3.0	11.9	3.0	11.5	3.0
RDW-SD fl	36.9	5.0	41.3	5.0	45.6	5.0
Plts 10^9/l	42	20	231	35	521	60
MPV fl	10.0	2.0	9.5	2.0	9.1	2.0
PCT %	0.04	0.02	0.22	0.06	0.47	0.10
PCT ml/l	0.42	0.20	2.19	0.60	4.74	1.00
PDW %	9.0	3.0	12.1	3.0	12.8	3.0
LYMP %	50.9	8.0	28.8	5.0	12.4	4.0
MONO %	14.8	14.8	8.8	8.8	7.0	7.0
GRAN %	34.3	6.0	62.4	8.0	80.6	8.0
LYMP #	1.0	0.2	2.3	0.4	2.5	0.9
MONO #	0.3	0.3	0.7	0.7	1.4	1.4
GRAN #	0.7	0.2	4.9	0.8	16.4	1.1

Avantor BeneSphera™ H32

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	1.9	0.4	7.9	0.8	20.4	2.0
RBC 10^{12}/l	2.33	0.15	4.42	0.20	5.29	0.25
Hb g/dl	6.0	0.4	13.6	0.5	18.9	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.7	0.5
Hct %	17.7	1.5	38.6	2.4	51.4	3.0
Hct l/l	0.177	0.015	0.386	0.024	0.514	0.030
MCV fl	78.1	4.0	85.4	4.0	94.6	4.0
MCH pg	25.9	2.4	30.8	2.8	35.8	2.8
MCH fmol	1.61	0.2	1.87	0.2	2.22	0.2
MCHC g/dl	34.0	3.0	35.2	3.0	36.8	3.0
MCHC mmol/l	21.1	2.0	21.4	2.0	22.8	2.0
RDW-CV %	12.2	3.0	11.9	3.0	11.5	3.0
RDW-SD fl	36.9	5.0	41.3	5.0	45.6	5.0
Plts 10^9/l	42	20	231	35	521	60
MPV fl	10.0	2.0	9.5	2.0	9.1	2.0
PCT %	0.04	0.02	0.22	0.06	0.47	0.10
PCT ml/l	0.42	0.20	2.19	0.60	4.74	1.00
PDW %	9.0	3.0	12.1	3.0	12.8	3.0
LYMP %	50.9	8.0	28.8	5.0	12.4	4.0
MONO %	14.8	14.8	8.8	8.8	7.0	7.0
GRAN %	34.3	6.0	62.4	8.0	80.6	8.0
LYMP #	1.0	0.2	2.3	0.4	2.5	0.9
MONO #	0.3	0.3	0.7	0.7	1.4	1.4
GRAN #	0.7	0.2	4.9	0.8	16.4	1.1

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	1.8	0.4	7.9	0.8	20.5	2.0
RBC 10^{12}/l	2.33	0.15	4.66	0.20	5.34	0.25
Hb g/dl	6.0	0.4	13.3	0.5	17.8	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.7	1.5	40.6	2.4	53.6	3.0
Hct l/l	0.177	0.015	0.406	0.024	0.536	0.030
MCV fl	76.1	4.0	87.1	4.0	100.4	4.0
MCH pg	25.9	2.4	28.5	2.8	33.4	2.8
MCH fmol	1.61	0.16	1.77	0.17	2.07	0.19
MCHC g/dl	34.0	3.0	32.8	3.0	33.2	3.0
MCHC mmol/l	21.1	2.0	20.3	2.0	20.6	2.0
RDW %	16.5	3.0	16.1	3.0	15.5	3.0
Plts 10^9/l	60	20	237	35	475	60
MPV fl	8.1	2.0	8.2	2.0	8.1	2.0
PDW %	17.2	3.0	16.4	3.0	16.8	3.0
LYMP %	55.9	9.0	32.9	4.0	16.2	4.0
MONO %	8.0	8.0	7.9	7.9	5.0	5.0
GRAN %	36.1	5.0	59.2	9.0	78.8	10.0
LYMP #	1.0	0.2	2.6	0.4	3.3	0.9
MONO #	0.2	0.2	0.6	0.6	1.0	1.0
GRAN #	0.6	0.2	4.7	0.4	16.2	1.1

Urit 2900 Plus

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	1.8	0.4	7.9	0.8	22.4	2.0
RBC 10^{12}/l	2.33	0.15	4.64	0.20	5.69	0.25
Hb g/dl	5.9	0.4	13.0	0.5	16.8	0.6
Hb mmol/l	3.7	0.3	8.1	0.4	10.4	0.5
Hct %	17.2	1.5	36.8	2.4	47.6	3.0
Hct l/l	0.172	0.015	0.368	0.024	0.476	0.030
MCV fl	73.6	4.0	79.4	4.0	83.6	4.0
MCH pg	25.5	2.4	28.0	2.8	29.6	2.8
MCH fmol	1.58	0.2	1.74	0.2	1.83	0.2
MCHC g/dl	34.6	3.0	35.3	3.0	35.4	3.0
MCHC mmol/l	21.5	2.0	21.9	2.0	21.9	2.0
RDW-CV %	15.0	3.0	15.1	3.0	15.2	3.0
RDW-SD fl	22.9	5.0	31.3	5.0	45.6	5.0
Plts 10^9/l	49	20	223	35	401	60
MPV fl	17.0	2.0	13.4	2.0	12.5	2.0
PCT %	0.08	0.02	0.30	0.06	0.50	0.10
PCT ml/l	0.83	0.20	2.98	0.60	5.01	1.00
PDW %	13.5	3.0	13.8	3.0	14.3	3.0
LYMP %	55.9	8.0	31.0	5.0	13.2	4.0
MONO %	8.0	8.0	5.6	5.6	4.3	4.3
GRAN %	36.1	6.0	63.4	8.0	82.5	8.0
LYMP #	1.0	0.2	2.4	0.4	3.0	0.9
MONO #	0.1	0.1	0.4	0.4	1.0	1.0
GRAN #	0.6	0.2	5.0	0.8	18.5	1.1

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Assay values 3-Diff Controls
Combined US and SI Units

D0000803
Version 26.0

LOT	:	219
⌛	:	2017-05-19

Mindray BC-3200, BC-3000CT

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.0	0.5	8.2	1.0	21.7	2.5
RBC 10^{12}/l	2.40	0.18	4.65	0.24	5.68	0.30
Hb g/dl	6.1	0.4	13.6	0.6	18.7	0.8
Hb mmol/l	3.8	0.3	8.4	0.4	11.6	0.5
Hct %	18.4	1.5	40.2	2.0	54.5	2.4
Hct l/l	0.184	0.015	0.402	0.020	0.545	0.024
MCV fl	76.5	5.0	86.5	5.0	96.0	5.0
MCH pg	25.4	2.5	29.2	2.5	32.9	2.5
MCH fmol	1.58	0.16	1.82	0.17	2.04	0.18
MCHC g/dl	33.2	3.0	33.8	3.0	34.3	3.0
MCHC mmol/l	20.6	2.0	21.0	2.0	21.3	2.0
RDW-CV	14.5	3.0	14.0	3.0	13.5	3.0
RDW-SD	35.0	6.0	38.0	6.0	40.0	8.0
Plts 10^9/l	60	20	248	40	520	60
MPV fl	8.4	3.0	8.0	3.0	7.6	3.0
LYMP %	54.0	12.0	29.0	8.0	13.0	6.0
MONO %	11.0	9.0	8.5	7.0	6.0	5.0
GRAN %	35.0	10.0	62.5	8.0	81.0	8.0
LYMP #	1.1	0.3	2.4	0.7	2.8	1.3
MONO #	0.2	0.2	0.7	0.6	1.3	1.1
GRAN #	0.7	0.3	5.1	0.7	17.6	1.8

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 10^9/l	2.0	0.5	8.2	1.0	21.4	2.5
RBC 10^{12}/l	2.35	0.18	4.63	0.24	5.63	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 %	17.6	1.5	39.4	2.0	52.9	2.4
Hct l/l	0.176	0.015	0.394	0.020	0.529	0.024
MCV fl	75.0	5.0	85.0	5.0	94.0	5.0
MCH pg	25.5	2.5	29.6	2.5	33.4	2.5
MCH fmol	1.58	0.16	1.84	0.17	2.07	0.18
MCHC g/dl	34.0	3.0	34.8	3.0	35.5	3.0
MCHC mmol/l	21.2	2.0	21.6	2.0	22.1	2.0
RDW-CV	16.5	3.0	15.5	3.0	15.0	3.0
RDW-SD	42.0	6.0	44.0	6.0	47.0	8.0
Plts 10^9/l	58	20	250	40	532	60
MPV fl	9.8	3.0	9.7	3.0	9.6	3.0
PCT %	0.05	0.05	0.24	0.10	0.50	0.20
PCT ml/l	0.50	0.50	2.40	1.00	5.00	2.00
PDW fl	14.6	3.0	14.9	3.0	14.8	3.0
LYMP %	60.0	10.0	32.0	8.0	14.5	7.0
MONO %	8.5	7.0	7.0	5.0	4.5	4.0
GRAN %	31.5	9.0	61.0	9.0	81.0	8.0
LYMP #	1.2	0.3	2.6	0.7	3.1	1.5
MONO #	0.2	0.2	0.6	0.5	1.0	0.9
GRAN #	0.6	0.2	5.0	0.8	17.3	1.8

Mindray BC-3600, BC-3300

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.0	0.5	7.9	1.0	21.0	2.5
RBC 10^{12}/l	2.45	0.18	4.80	0.24	5.83	0.30
Hb g/dl	6.2	0.4	13.7	0.6	18.7	0.8
Hb mmol/l	3.8	0.3	8.5	0.4	11.6	0.5
Hct %	18.5	1.5	40.3	2.0	53.6	2.4
Hct l/l	0.185	0.015	0.403	0.020	0.536	0.024
MCV fl	75.5	5.0	84.0	5.0	92.0	5.0
MCH pg	25.3	2.5	28.5	2.5	32.1	2.5
MCH fmol	1.57	0.16	1.77	0.17	1.99	0.18
MCHC g/dl	33.5	3.0	34.0	3.0	34.9	3.0
MCHC mmol/l	20.8	2.0	21.1	2.0	21.7	2.0
RDW-CV	15.5	3.0	15.0	3.0	14.4	3.0
RDW-SD	35.0	8.0	40.5	8.0	43.0	8.0
Plts 10^9/l	55	20	260	40	570	60
MPV fl	9.0	3.0	9.2	3.0	9.2	3.0
PCT %	0.05	0.05	0.24	0.10	0.51	0.20
PCT ml/l	0.50	0.50	2.40	1.00	5.10	2.00
PDW fl	15.3	3.0	15.6	3.0	15.9	3.0
P-LCC	18.0	10.0	85.0	22.0	173.0	30.0
P-LCR	31.0	9.0	31.7	9.0	30.0	9.0
LYMP %	56.0	9.0	29.0	8.0	13.0	8.0
MONO %	12.0	8.0	9.0	8.0	6.0	5.0
GRAN %	32.0	8.0	62.0	8.0	81.0	9.0
LYMP #	1.1	0.2	2.3	0.7	2.7	1.7
MONO #	0.2	0.2	0.7	0.7	1.3	1.1
GRAN #	0.6	0.2	4.9	0.7	17.0	1.9

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.0	0.5	8.2	1.0	21.5	2.5
RBC 10^{12}/l	2.41	0.18	4.65	0.24	5.65	0.30
Hb g/dl	6.1	0.4	13.5	0.6	18.4	0.8
Hb mmol/l	3.8	0.3	8.4	0.4	11.4	0.5
Hct %	18.6	1.5	40.2	2.0	54.0	2.4
Hct l/l	0.186	0.015	0.402	0.020	0.540	0.024
MCV fl	77.0	5.0	86.5	5.0	95.5	5.0
MCH pg	25.3	2.5	29.0	2.5	32.6	2.5
MCH fmol	1.57	0.16	1.80	0.17	2.02	0.18
MCHC g/dl	32.9	3.0	33.6	3.0	34.1	3.0
MCHC mmol/l	20.4	2.0	20.8	2.0	21.1	2.0
RDW-CV	16.0	3.0	15.0	3.0	14.5	3.0
RDW-SD	36.0	6.0	38.5	6.0	41.0	8.0
Plts 10^9/l	62	20	249	40	532	60
MPV fl	8.6	3.0	8.3	3.0	8.2	3.0
PCT %	0.05	0.05	0.20	0.10	0.43	0.20
PCT ml/l	0.50	0.50	2.00	1.00	4.30	2.00
PDW fl	16.5	3.0	16.3	3.0	16.2	3.0
LYMP %	55.0	12.0	29.5	8.0	13.0	6.0
MONO %	11.5	8.0	9.0	7.0	6.0	5.0
GRAN %	33.5	9.0	61.5	8.0	81.0	8.0
LYMP #	1.1	0.3	2.4	0.7	2.8	1.3
MONO #	0.2	0.2	0.7	0.6	1.3	1.1
GRAN #	0.7	0.2	5.0	0.7	17.4	1.8

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	2.1	0.5	7.9	1.0	19.8	2.5
RBC 10^{12}/l	2.18	0.18	4.35	0.24	5.43	0.30
Hb g/dl **	6.2	0.4	14.2	0.6	19.2	0.8
Hb mmol/l **	3.9	0.3	8.8	0.4	11.9	0.5
Hct %	17.9	1.5	39.3	2.0	53.0	2.4
Hct l/l	0.179	0.015	0.393	0.020	0.530	0.024
MCV fl	82.1	5.0	90.4	5.0	97.6	5.0
MCH pg **	28.6	2.5	32.6	2.5	35.4	2.5
MCH fmol **	1.77	0.16	2.03	0.17	2.20	0.18
MCHC g/dl **	34.8	3.0	36.1	3.0	36.3	3.0
MCHC mmol/l **	21.6	2.0	22.4	2.0	22.5	2.0
RDW-CV	15.3	3.0	15.4	3.0	15.3	3.0
RDW-SD	44.9	6.0	49.5	6.0	53.2	8.0
Plts 10^9/l	57	20	225	40	479	60
MPV fl	8.8	3.0	9.0	3.0	8.6	3.0
LYMP %	56.2	12.0	29.9	8.0	13.7	6.0
MONO %	11.3	11.3	7.9	7.9	5.0	5.0
GRAN %	32.5	9.0	62.2	8.0	81.3	8.0
LYMP #	1.2	0.3	2.4	0.7	2.7	1.3
MONO #	0.2	0.2	0.6	0.6	1.0	1.0
GRAN #	0.7	0.2	4.9	0.7	16.1	1.8

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

Hb g/dl	5.9	0.4	13.2	0.6	17.9	0.8
Hb mmol/l	3.7	0.3	8.2	0.4	11.1	0.5
MCH pg	27.2	2.5	30.3	2.5	33.0	2.5
MCH fmol	1.69	0.16	1.88	0.17	2.05	0.18
MCHC g/dl	33.1	3.0	33.6	3.0	33.8	3.0
MCHC mmol/l	20.6	2.0	20.8	2.0	21.0	2.0

Mindray BC-2300, BC-2100

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10^9/l	1.9	0.5	8.0	1.0	21.6	2.5
RBC 10^{12}/l	2.32	0.18	4.53	0.24	5.45	0.30
Hb g/dl	6.3	0.4	13.6	0.6	18.4	0.8
Hb mmol/l	3.9	0.3	8.5	0.4	11.4	0.5
Hct %	17.2	1.5	38.2	2.0	50.6	2.4
Hct l/l	0.172	0.015	0.382	0.020	0.506	0.024
MCV fl	74.0	5.0	84.3	5.0	92.9	5.0
MCH pg	27.1	2.5	30.1	2.5	33.7	2.5
MCH fmol	1.68	0.16	1.87	0.16	2.09	0.16
MCHC g/dl	36.6	3.0	35.7	3.0	36.2	3.0
MCHC mmol/l	22.7	1.9	22.1	1.9	22.5	1.9
RDW-CV	14.5	3.0	14.0	3.0	13.4	3.0
RDW-SD	33.0	8.0	36.9	8.0	38.3	8.0
Plts 10^9/l	46	20	236	40	531	60
MPV fl	10.5	3.0	10.3	3.0	10.1	3.0
PCT %	0.05	0.05	0.24	0.10	0.53	0.20
PCT ml/l	0.48	0.48	2.43	1.00	5.33	2.00
PDW fl	14.4	3.0	14.8	3.0	15.7	3.0
LYMP %	55.5	10.0	31.9	8.0	14.4	7.0
MONO %	10.4	10.4	8.3	8.3	7.0	7.0
GRAN %	34.1	9.0	59.8	9.0	78.7	8.0
LYMP #	1.1	0.2	2.6	0.7	3.1	1.5
MONO #	0.2	0.2	0.7	0.7	1.5	1.5
GRAN #	0.6	0.2	4.8	0.7	17.0	1.7