

REF : 3734-3735-3736-3752-3753-3754-3820-3821-3822  
 LOT : 194  
 : 2011, February 19th

Coulter Counter Models (with III Diff. option; for ActT 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 <sup>9</sup> /l	2.0	0.4	7.6	0.8	20.9	2.0
RBC 10 <sup>12</sup> /l	2.33	0.12	4.64	0.15	5.56	0.18
Hb g/dl	5.9	0.4	13.4	0.5	17.6	0.6
Hb mmol/l	3.7	0.3	8.3	0.3	10.9	0.4
Hct %	17.2	1.5	39.4	2.4	51.2	3.0
Hct l/l	0.172	0.015	0.394	0.024	0.512	0.030
MCV fl	74	4	85	4	92	4
MCH pg	25.3	2.4	28.9	2.8	31.7	2.8
MCH fmol	1.57	0.14	1.79	0.11	1.96	0.11
MCHC g/dl	34.2	3.0	34.0	3.0	34.4	3.0
MCHC mmol/l	21.2	1.8	21.1	1.8	21.4	1.8
RDW %	16.3	3.0	15.8	3.0	14.9	3.0
Plts 10 <sup>9</sup> /l	68	15	262	30	507	55
MPV fl	8.0	2.0	7.8	1.5	7.8	1.5
PDW %	17.9	2.5	16.9	2.5	16.8	2.5
LYMP %	55.8	6.0	30.4	4.0	15.3	4.0
MONO %	14.8	4.0	9.1	4.0	4.4	3.0
GRAN %	29.4	5.0	60.5	5.0	80.3	5.0
LYMP #	1.1	0.2	2.3	0.4	3.2	0.9
MONO #	0.3	0.3	0.7	0.7	0.9	0.9
GRAN #	0.6	0.2	4.6	0.4	16.8	1.1

ABX Roche: Micros; Bayer: Advia 60

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.1	0.4	7.2	0.8	19.4	2.0
RBC 10 <sup>12</sup> /l	2.34	0.12	4.60	0.15	5.55	0.18
Hb g/dl	5.6	0.4	13.4	0.5	17.5	0.6
Hb mmol/l	3.5	0.2	8.3	0.3	10.9	0.4
Hct %	16.0	1.5	38.0	2.4	50.5	3.0
Hct l/l	0.160	0.015	0.380	0.024	0.505	0.030
MCV fl	69	4	83	4	91	4
MCH pg	23.9	2.4	29.1	2.8	31.6	2.8
MCH fmol	1.49	0.14	1.81	0.11	1.96	0.11
MCHC g/dl	34.9	3.0	35.2	3.0	34.7	3.0
MCHC mmol/l	21.6	1.8	21.9	1.8	21.5	1.8
RDW %	14.9	3.0	16.2	3.0	15.3	3.0
Plts 10 <sup>9</sup> /l	74	15	259	30	474	55
MPV fl	7.6	2.0	7.4	1.5	7.3	1.5
LYMP %	48.3	5.0	27.0	4.0	13.9	4.0
MONO %	14.1	4.0	9.0	4.0	3.5	3.0
GRAN %	37.6	5.0	64.0	5.0	82.6	5.0
LYMP #	1.0	0.3	1.9	0.4	2.7	0.8
MONO #	0.3	0.1	0.6	0.3	0.7	0.6
GRAN #	0.8	0.2	4.6	0.6	16.0	1.2

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	2.2	0.4	7.3	0.8	18.8	2.0
RBC 10 <sup>12</sup> /l	2.36	0.12	4.60	0.15	5.45	0.18
Hb g/dl	5.8	0.4	13.2	0.5	17.4	0.6
Hb mmol/l	3.6	0.2	8.2	0.3	10.8	0.4
Hct %	17.5	1.5	39.6	2.4	50.7	3.0
Hct l/l	0.175	0.015	0.396	0.024	0.507	0.030
MCV fl	74	4	86	4	93	4
MCH pg	24.6	2.4	28.7	2.8	31.9	2.8
MCH fmol	1.53	0.14	1.78	0.11	1.98	0.11
MCHC g/dl	33.2	3.0	33.4	3.0	34.3	3.0
MCHC mmol/l	20.6	1.8	20.7	1.8	21.3	1.8
Plts 10 <sup>9</sup> /l	64	15	257	30	494	55
MPV fl	8.9	2	8.3	1.5	8.0	1.5
LYMP %	55.8	5.0	30.4	4.0	15.3	4.0
MID %	14.8	4.0	9.1	4.0	4.4	3.0
GRAN %	29.4	4.0	60.5	5.0	80.3	5.0
LYMP #	1.2	0.3	2.2	0.4	2.9	0.8
MID #	0.3	0.1	0.7	0.3	0.8	0.6
GRAN #	0.6	0.2	4.4	0.6	15.1	1.2

Coulter Counter: Act diff, Act diff 2

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.6	0.8	20.8	2.0
RBC 10 <sup>12</sup> /l	2.33	0.12	4.64	0.15	5.56	0.18
Hb g/dl	5.9	0.4	13.4	0.5	17.6	0.6
Hb mmol/l	3.7	0.3	8.3	0.3	10.9	0.4
Hct %	17.2	1.5	39.9	2.4	51.7	3.0
Hct l/l	0.172	0.015	0.399	0.024	0.517	0.030
MCV fl	74	4	86	4	93	4
MCH pg	25.3	2.4	28.9	2.8	31.7	2.8
MCH fmol	1.57	0.10	1.79	0.11	1.96	0.12
MCHC g/dl	34.2	3.0	33.6	3.0	34.0	3.0
MCHC mmol/l	21.2	1.8	20.8	1.8	21.1	1.8
RDW %	16.3	3.0	15.8	3.0	14.9	3.0
Plts 10 <sup>9</sup> /l	68	15	260	30	505	55
MPV fl	8.0	2.0	7.8	1.5	7.8	1.5
LYMP %	57.5	6.0	30.0	4.0	14.0	4.0
MONO %	12.0	4.0	7.5	4.0	3.5	3.0
GRAN %	30.5	5.0	62.5	5.0	82.5	5.0
LYMP #	1.2	0.2	2.3	0.4	2.9	0.9
MONO #	0.2	0.1	0.6	0.4	0.7	0.6
GRAN #	0.6	0.2	4.8	0.4	17.2	1.1

Coulter Counter: Act 8, Act 10

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
LYMP %	44.0	6.0	21.5	4.0	9.0	4.0
LYMP #	0.9	0.2	1.6	0.3	1.9	0.9

Please refer to Table Act Diff for CBC parameters


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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.3	0.8	19.2	2.0
RBC 10 <sup>12</sup> /l	2.31	0.12	4.60	0.15	5.48	0.18
Hb g/dl	5.8	0.4	13.7	0.5	18.8	0.6
Hb mmol/l	3.6	0.2	8.5	0.3	11.7	0.4
Hct %	17.6	1.5	39.7	2.4	53.0	3.0
Hct l/l	0.176	0.015	0.397	0.024	0.530	0.030
MCV fl	76	4	86	4	97	4
MCH pg	25.1	2.4	29.8	2.8	34.3	2.8
MCH fmol	1.56	0.14	1.85	0.11	2.13	0.11
MCHC g/dl	33.0	3.0	34.4	3.0	35.4	3.0
MCHC mmol/l	20.5	1.8	21.4	1.8	22.0	1.8
RDW %	15.2	3.0	15.2	3.0	14.1	3.0
Plts 10 <sup>9</sup> /l	70	15	267	30	495	55
MPV fl	8.0	2	6.8	1.5	6.4	1.5
LYMP %	59.5	5.0	32.3	4.0	18.4	4.0
MONO %	16.1	4.0	9.9	4.0	4.2	3.0
GRAN %	24.4	4.0	57.9	5.0	77.4	5.0
LYMP #	1.2	0.3	2.3	0.4	3.5	0.8
MONO #	0.3	0.1	0.7	0.3	0.8	0.6
GRAN #	0.5	0.2	4.2	0.6	14.8	1.2

Danam / Drew Excel18 = MWI BT2100, Drew D3

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.1	0.4	7.7	0.8	21.1	2.0
RBC 10 <sup>12</sup> /l	2.44	0.12	4.56	0.15	5.44	0.18
Hb g/dl	5.9	0.4	13.3	0.5	17.7	0.6
Hb mmol/l	3.7	0.2	8.3	0.3	11.0	0.4
Hct %	18.0	1.5	39.2	2.4	50.8	3.0
Hct l/l	0.180	0.015	0.392	0.024	0.508	0.030
MCV fl	74	4	86	4	93	4
MCH pg	24.3	2.4	29.2	2.8	32.5	2.8
MCH fmol	1.51	0.14	1.81	0.11	2.02	0.11
MCHC g/dl	32.9	3.0	33.9	3.0	34.8	3.0
MCHC mmol/l	20.4	1.8	21.1	1.8	21.6	1.8
RDW %	12.3	3.0	11.9	3.0	11.9	3.0
Plts 10 <sup>9</sup> /l	78	15	277	30	494	55
MPV fl	6.7	2	7.0	1.5	7.0	1.5
LYMP %	48.9	5.0	24.4	4.0	11.5	4.0
MONO %	15.4	4.0	8.4	4.0	3.4	3.0
GRAN %	35.8	4.0	67.2	5.0	85.2	5.0
LYMP #	1.0	0.3	1.9	0.4	2.4	0.8
MONO #	0.3	0.1	0.6	0.3	0.7	0.6
GRAN #	0.7	0.2	5.2	0.6	17.9	1.2

LOT : 194

 : 2011, February 19th

Diatron: Abacus, Arcus \*\*

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.3	0.8	20.5	2.0
RBC 10 <sup>12</sup> /l	2.38	0.12	4.78	0.15	5.65	0.20
Hb g/dl	6.0	0.4	13.6	0.5	18.3	0.6
Hb mmol/l	3.7	0.3	8.5	0.4	11.3	0.4
Hct %	18.8	1.5	43.3	2.4	55.3	3.0
Hct l/l	0.188	0.015	0.433	0.024	0.553	0.030
MCV fl	79	4	91	4	98	4
MCH pg	25.3	2.4	28.5	2.8	32.3	2.8
MCH fmol	1.57	0.14	1.77	0.11	2.01	0.11
MCHC g/dl	32.0	3.0	31.5	3.0	33.0	3.0
MCHC mmol/l	19.9	1.8	19.6	1.8	20.5	1.8
RDW-SD fl	47.3	3.0	53.6	3.0	53.9	3.0
RDW-CV %	15.3	3.0	15.1	3.0	14.0	3.0
Plts 10 <sup>9</sup> /l	68	15	262	30	507	55
MPV fl	7.8	1.5	7.8	1.5	7.7	1.5
PCT %	0.05	0.02	0.20	0.03	0.39	0.04
PCT ml/l	0.53	0.2	2.04	0.3	3.92	0.4
PDW-SD fl	11.0	2.5	10.6	2.5	10.6	3.0
PDW-CV %	39.5	2.5	38.0	2.5	38.4	3.0
LYMP %	53.0	5.0	27.3	4.0	12.2	4.0
MONO %	14.9	4.0	12.2	4.0	5.7	4.0
GRAN %	32.0	4.0	60.5	5.0	82.2	5.0
LYMP #	1.1	0.3	2.0	0.4	2.5	0.8
MONO #	0.3	0.1	0.9	0.3	1.2	0.6
GRAN #	0.6	0.2	4.4	0.6	16.8	1.2

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

AVL (Contraves): AVL - 816

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
Please refer to Table Coulter Counters for CBC parameters						
LYMP %	60.3	5.0	36.2	4.0	18.2	4.0
MONO %	13.6	4.0	10.4	4.0	5.6	3.0
GRAN %	26.1	4.0	53.4	5.0	76.2	5.0
LYMP #	1.2	0.3	2.8	0.4	3.8	0.8
MONO #	0.3	0.1	0.8	0.3	1.2	0.6
GRAN #	0.5	0.2	4.1	0.6	15.9	1.2

AVL (Contraves): AVL - 818

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
Please refer to Table Coulter Counters for CBC parameters						
LYMP %	67.7	5.0	38.1	4.0	19.2	4.0
MONO %	11.9	4.0	9.7	4.0	5.4	3.0
GRAN %	20.3	4.0	52.2	5.0	75.5	5.0
LYMP #	1.4	0.3	2.9	0.4	4.0	0.8
MONO #	0.2	0.1	0.7	0.2	1.1	0.4
GRAN #	0.4	0.2	4.0	0.6	15.8	1.2

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.8	0.8	21.8	2.0
RBC 10 <sup>12</sup> /l	2.44	0.12	4.65	0.15	5.41	0.18
Hb g/dl	5.7	0.4	12.9	0.5	16.9	0.6
Hb mmol/l	3.5	0.2	8.0	0.3	10.5	0.4
Hct %	18.8	1.5	41.4	2.4	54.1	3.0
Hct l/l	0.188	0.015	0.414	0.024	0.541	0.030
MCV fl	77	4	89	4	100	4
MCH pg	23.4	2.4	27.7	2.8	31.2	2.8
MCH fmol	1.45	0.14	1.72	0.11	1.94	0.11
MCHC g/dl	30.3	3.0	31.2	3.0	31.2	3.0
MCHC mmol/l	18.8	1.8	19.3	1.8	19.4	1.8
RDW %	19.3	3.0	17.3	3.0	16.3	3.0
Plts 10 <sup>9</sup> /l	78	15	276	30	533	55
MPV fl	8.8	2.0	8.2	1.5	8.3	1.5
PDW %	16.7	2.5	15.5	2.5	14.4	2.5
LYMP %	47.8	5.0	32.2	4.0	26.9	4.0
MONO %	8.4	8.4	5.4	5.4	1.4	1.4
GRAN %	43.8	4.0	62.4	5.0	71.7	5.0
LYMP #	1.0	0.3	2.5	0.4	5.9	0.8
MONO #	0.2	0.2	0.4	0.4	0.3	0.3
GRAN #	0.9	0.2	4.9	0.6	15.6	1.2

Orphee MYTHIC 18

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.6	0.8	20.9	2.0
RBC 10 <sup>12</sup> /l	2.33	0.12	4.64	0.15	5.56	0.18
Hb g/dl	5.9	0.4	13.4	0.5	17.6	0.6
Hb mmol/l	3.7	0.2	8.3	0.3	10.9	0.4
Hct %	18.6	1.5	41.8	2.4	53.4	3.0
Hct l/l	0.186	0.015	0.418	0.024	0.534	0.030
MCV fl	80	4	90	4	96	4
MCH pg	25.3	2.4	28.9	2.8	31.7	2.8
MCH fmol	1.57	0.14	1.79	0.11	1.96	0.11
MCHC g/dl	31.7	3.0	32.1	3.0	33.0	3.0
MCHC mmol/l	19.6	1.8	19.9	1.8	20.5	1.8
RDW %	16.3	3.0	15.8	3.0	15.9	3.0
Plts 10 <sup>9</sup> /l	68	15	256	30	495	55
MPV fl	8.7	2.0	8.2	1.5	8.0	1.5
LYMP %	56.1	5.0	29.2	4.0	14.9	4.0
MONO %	10.2	10.2	6.0	6.0	2.4	2.4
GRAN %	33.7	4.0	64.8	5.0	82.7	5.0
LYMP #	1.1	0.3	2.2	0.4	3.1	0.8
MONO #	0.2	0.2	0.5	0.5	0.5	0.5
GRAN #	0.7	0.2	4.9	0.6	17.3	1.2



Mallinckrodt Baker B.V.  
P.O. Box 1 - 7400AA Deventer - Holland  
Tel.: +31 (0)570 687500

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



8°C



LOT : 194

2 : 2011, February 19th

Mindray BC-3200, BC-3000CT (new models)

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like WBC, RBC, Hb, Hct, etc.

Mindray BC-2800, BC-2600 (software version lower than 2.0)

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like WBC, RBC, Hb, Hct, etc.

Mindray BC-2800, BC-2600 (software version 2.0 or higher)

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like WBC, RBC, Hb, Hct, etc.

Mindray BC-3000 (new models s/n A75xxx), BC-2900, BC-1800

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like WBC, RBC, Hb, Hct, etc.

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

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like WBC, RBC, Hb, Hct, etc.

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

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like Hb, Hct, MCH, etc.

Mindray BC-2300, BC-2100

Table with 6 columns: Parameters, Mean, Range ± (LOW), Mean, Range ± (NORMAL), Mean, Range ± (HIGH). Lists various parameters like WBC, RBC, Hb, Hct, etc.