

REF : 3734-3735-3736-3752-3753-3754-3820-3821-3822  
LOT : 188  
: 2009, August 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	2.2	0.4	7.7	0.8	19.8	2.0
RBC 10 <sup>12</sup> /l	2.34	0.12	4.65	0.15	5.54	0.18
Hb g/dl	6.1	0.4	13.5	0.5	17.7	0.6
Hb mmol/l	3.8	0.2	8.4	0.3	11.0	0.4
Hct %	17.6	1.5	39.1	2.4	51.0	3.0
Hct l/l	0.176	0.015	0.391	0.024	0.510	0.030
MCV fl	75	4	84	4	92	4
MCH pg	26.1	2.4	29.0	2.8	31.9	2.8
MCH fmol	1.62	0.14	1.80	0.11	1.98	0.11
MCHC g/dl	34.8	3.0	34.6	3.0	34.7	3.0
MCHC mmol/l	21.6	1.8	21.4	1.8	21.6	1.8
RDW %	15.0	3.0	14.6	3.0	13.7	3.0
Plts 10 <sup>9</sup> /l	73	15	245	30	480	55
MPV fl	7.4	2.0	8.0	1.5	7.6	1.5
PDW %	17.7	2.5	16.7	2.5	16.5	2.5
LYMP %	59.0	5.0	33.5	4.0	15.5	4.0
MONO %	11.0	4.0	6.0	4.0	4.5	3.0
GRAN %	30.0	4.0	60.5	5.0	80.0	5.0
LYMP #	1.3	0.2	2.6	0.4	3.1	0.8
MONO #	0.2	0.1	0.5	0.4	0.9	0.6
GRAN #	0.7	0.1	4.7	0.4	15.8	1.0

ABX Roche: Micros; Bayer: Advia 60

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.3	0.4	7.3	0.8	18.3	2.0
RBC 10 <sup>12</sup> /l	2.35	0.12	4.61	0.15	5.53	0.18
Hb g/dl	5.8	0.4	13.5	0.5	17.6	0.6
Hb mmol/l	3.6	0.2	8.4	0.3	10.9	0.4
Hct %	16.3	1.5	37.6	2.4	50.4	3.0
Hct l/l	0.163	0.015	0.376	0.024	0.504	0.030
MCV fl	70	4	82	4	91	4
MCH pg	24.7	2.4	29.2	2.8	31.9	2.8
MCH fmol	1.53	0.14	1.81	0.11	1.98	0.11
MCHC g/dl	35.4	3.0	35.8	3.0	35.0	3.0
MCHC mmol/l	22.0	1.8	22.2	1.8	21.7	1.8
RDW %	13.7	3.0	15.0	3.0	14.1	3.0
Plts 10 <sup>9</sup> /l	80	15	243	30	449	55
MPV fl	7.1	2.0	7.6	1.5	7.2	1.5
LYMP %	51.0	5.0	29.7	4.0	14.1	4.0
MONO %	10.5	4.0	5.9	4.0	3.5	3.0
GRAN %	38.5	4.0	64.4	5.0	82.3	5.0
LYMP #	1.2	0.3	2.2	0.4	2.6	0.8
MONO #	0.2	0.1	0.4	0.3	0.6	0.6
GRAN #	0.9	0.2	4.7	0.6	15.1	1.2

Abbott Cell-Dyn: 1300, 1500, 1600, 1700, 2000 series

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.4	0.4	7.4	0.8	17.7	2.0
RBC 10 <sup>12</sup> /l	2.37	0.12	4.61	0.15	5.43	0.18
Hb g/dl	6.0	0.4	13.3	0.5	17.5	0.6
Hb mmol/l	3.7	0.2	8.3	0.3	10.9	0.4
Hct %	17.8	1.5	39.2	2.4	50.5	3.0
Hct l/l	0.178	0.015	0.392	0.024	0.505	0.030
MCV fl	75	4	85	4	93	4
MCH pg	25.3	2.4	28.9	2.8	32.2	2.8
MCH fmol	1.57	0.14	1.79	0.11	2.00	0.11
MCHC g/dl	33.8	3.0	33.9	3.0	34.7	3.0
MCHC mmol/l	20.9	1.8	21.1	1.8	21.5	1.8
Plts 10 <sup>9</sup> /l	69	15	240	30	467	55
MPV fl	8.3	2	8.5	1.5	7.8	1.5
LYMP %	59.0	5.0	33.5	4.0	15.5	4.0
MID %	11.0	4.0	6.0	4.0	4.5	3.0
GRAN %	30.0	4.0	60.5	5.0	80.0	5.0
LYMP #	1.4	0.3	2.5	0.4	2.7	0.8
MID #	0.3	0.1	0.4	0.3	0.8	0.6
GRAN #	0.7	0.2	4.5	0.6	14.2	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	2.2	0.4	7.7	0.8	19.8	2.0
RBC 10 <sup>12</sup> /l	2.34	0.12	4.65	0.15	5.54	0.18
Hb g/dl	6.1	0.4	13.5	0.5	17.7	0.6
Hb mmol/l	3.8	0.3	8.4	0.3	11.0	0.4
Hct %	17.6	1.5	39.1	2.4	51.0	3.0
Hct l/l	0.176	0.015	0.391	0.024	0.510	0.030
MCV fl	75	4	84	4	92	4
MCH pg	26.1	2.4	29.0	2.8	31.9	2.8
MCH fmol	1.62	0.10	1.80	0.11	1.98	0.12
MCHC g/dl	34.8	3.0	34.6	3.0	34.7	3.0
MCHC mmol/l	21.6	1.8	21.4	1.8	21.6	1.8
RDW %	15.0	3.0	14.6	3.0	13.7	3.0
Plts 10 <sup>9</sup> /l	73	15	245	30	480	55
MPV fl	7.4	2.0	8.0	1.5	7.6	1.5
LYMP %	62.0	6.0	32.5	4.0	14.5	4.0
MONO %	8.0	5.0	4.5	4.0	3.5	3.0
GRAN %	30.0	4.0	63.0	5.0	82.0	5.0
LYMP #	1.4	0.2	2.5	0.4	2.9	0.8
MONO #	0.2	0.1	0.3	0.3	0.7	0.6
GRAN #	0.7	0.1	4.9	0.4	16.2	1.0

Coulter Counter: Act 8, Act 10

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
LYMP %	47.5	6.0	24.5	4.0	10.0	4.0
LYMP #	1.0	0.2	1.9	0.4	2.0	0.8

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	2.2	0.4	7.4	0.8	18.2	2.0
RBC 10 <sup>12</sup> /l	2.32	0.12	4.61	0.15	5.46	0.18
Hb g/dl	6.0	0.4	13.8	0.5	18.9	0.6
Hb mmol/l	3.7	0.2	8.6	0.3	11.7	0.4
Hct %	17.9	1.5	39.3	2.4	52.8	3.0
Hct l/l	0.179	0.015	0.393	0.024	0.528	0.030
MCV fl	77	4	85	4	97	4
MCH pg	25.9	2.4	29.9	2.8	34.6	2.8
MCH fmol	1.60	0.14	1.86	0.11	2.15	0.11
MCHC g/dl	33.6	3.0	35.0	3.0	35.8	3.0
MCHC mmol/l	20.8	1.8	21.7	1.8	22.2	1.8
RDW %	14.0	3.0	14.1	3.0	13.0	3.0
Plts 10 <sup>9</sup> /l	75	15	250	30	469	55
MPV fl	7.4	2	7.0	1.5	6.2	1.5
LYMP %	62.9	5.0	35.6	4.0	18.7	4.0
MONO %	12.0	4.0	6.5	4.0	4.3	3.0
GRAN %	25.1	4.0	57.9	5.0	77.0	5.0
LYMP #	1.4	0.3	2.6	0.4	3.4	0.8
MONO #	0.3	0.1	0.5	0.3	0.8	0.6
GRAN #	0.6	0.2	4.3	0.6	14.0	1.2

Danam / Drew Excel18 = MWI BT2100

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.3	0.4	7.8	0.8	20.0	2.0
RBC 10 <sup>12</sup> /l	2.46	0.12	4.57	0.15	5.42	0.18
Hb g/dl	6.1	0.4	13.4	0.5	17.8	0.6
Hb mmol/l	3.8	0.2	8.3	0.3	11.0	0.4
Hct %	18.3	1.5	38.8	2.4	50.6	3.0
Hct l/l	0.183	0.015	0.388	0.024	0.506	0.030
MCV fl	75	4	85	4	93	4
MCH pg	25.0	2.4	29.3	2.8	32.8	2.8
MCH fmol	1.55	0.14	1.82	0.11	2.03	0.11
MCHC g/dl	33.5	3.0	34.5	3.0	35.1	3.0
MCHC mmol/l	20.8	1.8	21.4	1.8	21.8	1.8
RDW %	11.3	3.0	11.0	3.0	10.9	3.0
Plts 10 <sup>9</sup> /l	84	15	259	30	467	55
MPV fl	6.2	2	7.2	1.5	6.8	1.5
LYMP %	51.7	5.0	26.9	4.0	11.6	4.0
MONO %	11.4	4.0	5.5	4.0	3.5	3.0
GRAN %	36.9	4.0	67.5	5.0	84.9	5.0
LYMP #	1.2	0.3	2.1	0.4	2.3	0.8
MONO #	0.3	0.1	0.4	0.3	0.7	0.6
GRAN #	0.8	0.2	5.2	0.6	17.0	1.2

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**Diatron: Abacus, Arcus \*\***

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.0	0.4	7.4	0.8	19.4	2.0
RBC 10 <sup>12</sup> /l	2.48	0.12	4.82	0.15	5.69	0.20
Hb g/dl	5.9	0.4	13.2	0.5	17.1	0.6
Hb mmol/l	3.7	0.3	8.2	0.4	10.6	0.4
Hct %	19.8	1.5	43.1	2.4	55.8	3.0
Hct l/l	0.198	0.015	0.431	0.024	0.558	0.030
MCV fl	80	4	89	4	98	4
MCH pg	23.8	2.4	27.4	2.8	30.0	2.8
MCH fmol	1.48	0.14	1.70	0.11	1.86	0.11
MCHC g/dl	29.8	3.0	30.6	3.0	30.7	3.0
MCHC mmol/l	18.5	1.8	19.0	1.8	19.0	1.8
RDW-SD fl	52.7	3.0	57.5	3.0	57.5	3.0
RDW-CV %	16.8	3.0	16.4	3.0	14.9	3.0
Plts 10 <sup>9</sup> /l	69	15	271	30	512	55
MPV fl	7.2	1.5	8.0	1.5	7.8	1.5
PCT %	0.05	0.02	0.22	0.03	0.40	0.04
PCT ml/l	0.50	0.2	2.17	0.3	3.99	0.4
PDW-SD fl	10.1	2.5	10.7	2.5	9.9	3.0
PDW-CV %	39.0	2.5	37.6	2.5	35.6	3.0
LYMP %	56.1	5.0	32.2	4.0	13.1	4.0
MONO %	11.1	4.0	5.3	4.0	4.7	4.0
GRAN %	32.8	4.0	62.5	5.0	82.2	5.0
LYMP #	1.1	0.3	2.4	0.4	2.5	0.8
MONO #	0.2	0.1	0.4	0.3	0.9	0.6
GRAN #	0.7	0.2	4.6	0.6	15.9	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 %	63.8	5.0	39.9	4.0	18.4	4.0
MONO %	10.1	4.0	6.8	4.0	5.8	3.0
GRAN %	26.1	4.0	53.3	5.0	75.8	5.0
LYMP #	1.4	0.3	3.1	0.4	3.6	0.8
MONO #	0.2	0.1	0.5	0.3	1.1	0.6
GRAN #	0.6	0.2	4.1	0.6	15.0	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 %	71.6	5.0	42.0	4.0	19.4	4.0
MONO %	8.9	4.0	6.4	4.0	5.5	3.0
GRAN %	19.5	4.0	51.6	5.0	75.1	5.0
LYMP #	1.6	0.3	3.2	0.4	3.8	0.8
MONO #	0.2	0.1	0.5	0.2	1.1	0.4
GRAN #	0.4	0.2	4.0	0.6	14.9	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	2.2	0.4	7.9	0.8	20.7	2.0
RBC 10 <sup>12</sup> /l	2.45	0.12	4.66	0.15	5.39	0.18
Hb g/dl	5.9	0.4	13.0	0.5	17.0	0.6
Hb mmol/l	3.7	0.2	8.1	0.3	10.6	0.4
Hct %	19.1	1.5	41.0	2.4	53.9	3.0
Hct l/l	0.191	0.015	0.410	0.024	0.539	0.030
MCV fl	78	4	88	4	100	4
MCH pg	24.1	2.4	27.9	2.8	31.5	2.8
MCH fmol	1.49	0.14	1.73	0.11	1.96	0.11
MCHC g/dl	30.9	3.0	31.7	3.0	31.5	3.0
MCHC mmol/l	19.2	1.8	19.7	1.8	19.6	1.8
RDW %	18.0	3.0	16.1	3.0	15.1	3.0
Plts 10 <sup>9</sup> /l	83	15	259	30	506	55
MPV fl	8.2	2.0	8.4	1.5	8.1	1.5
PDW %	16.5	2.5	15.3	2.5	14.1	2.5
LYMP %	51.0	5.0	35.3	4.0	27.1	4.0
MONO %	4.6	4.6	2.3	2.3	1.5	1.5
GRAN %	44.4	4.0	62.4	5.0	71.4	5.0
LYMP #	1.1	0.3	2.8	0.4	5.6	0.8
MONO #	0.1	0.1	0.2	0.2	0.3	0.3
GRAN #	1.0	0.2	4.9	0.6	14.8	1.2

**Orphee MYTHIC 18**

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 <sup>9</sup> /l	2.2	0.4	7.7	0.8	19.8	2.0
RBC 10 <sup>12</sup> /l	2.34	0.12	4.65	0.15	5.54	0.18
Hb g/dl	6.1	0.4	13.5	0.5	17.7	0.6
Hb mmol/l	3.8	0.2	8.4	0.3	11.0	0.4
Hct %	19.0	1.5	41.4	2.4	53.2	3.0
Hct l/l	0.190	0.015	0.414	0.024	0.532	0.030
MCV fl	81	4	89	4	96	4
MCH pg	26.1	2.4	29.0	2.8	31.9	2.8
MCH fmol	1.62	0.14	1.80	0.11	1.98	0.11
MCHC g/dl	32.2	3.0	32.6	3.0	33.3	3.0
MCHC mmol/l	20.0	1.8	20.2	1.8	20.7	1.8
RDW %	15.0	3.0	14.6	3.0	14.7	3.0
Plts 10 <sup>9</sup> /l	73	15	239	30	468	55
MPV fl	8.1	2.0	8.4	1.5	7.8	1.5
LYMP %	59.3	5.0	32.3	4.0	15.1	4.0
MONO %	6.4	6.4	2.9	2.9	2.5	2.5
GRAN %	34.3	4.0	64.8	5.0	82.4	5.0
LYMP #	1.3	0.3	2.5	0.4	3.0	0.8
MONO #	0.1	0.1	0.2	0.2	0.5	0.5
GRAN #	0.8	0.2	5.0	0.6	16.3	1.2



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



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