

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

LOT : 206

: 2014-02-19

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	2.2	0.4	7.8	0.8	20.1	2.0
RBC 10 ¹² /l	2.41	0.15	4.52	0.20	5.58	0.24
Hb g/dl	6.0	0.4	13.4	0.5	17.8	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.9	1.5	39.0	2.4	52.0	3.0
Hct l/l	0.179	0.015	0.390	0.024	0.520	0.030
MCV fl	74.2	4.0	86.3	4.0	93.1	4.0
MCH pg	25.0	2.4	29.6	2.8	31.9	2.8
MCH fmol	1.55	0.16	1.84	0.17	1.98	0.19
MCHC g/dl	33.7	3.0	34.4	3.0	34.3	3.0
MCHC mmol/l	20.9	2.0	21.3	2.0	21.3	2.0
RDW %	16.6	3.0	16.1	3.0	15.0	3.0
Ptits 10 ⁹ /l	75	20	250	35	498	60
MPV fl	8.4	2.0	7.9	2.0	8.2	2.0
PDW %	17.7	3.0	16.8	3.0	16.5	3.0
LYMP %	63.2	6.0	33.9	4.0	16.5	4.0
MONO %	8.3	4.0	8.4	6.8	4.5	3.0
GRAN %	28.5	5.0	57.7	5.0	79.0	5.0
LYMP #	1.4	0.2	2.6	0.4	3.3	0.9
MONO #	0.2	0.2	0.7	0.5	0.9	0.7
GRAN #	0.6	0.2	4.5	0.4	15.9	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	2.3	0.4	7.3	0.8	18.6	2.0
RBC 10 ¹² /l	2.42	0.15	4.48	0.20	5.57	0.24
Hb g/dl	5.7	0.4	13.4	0.5	17.8	0.6
Hb mmol/l	3.5	0.3	8.3	0.4	11.0	0.5
Hct %	16.6	1.5	37.6	2.4	51.3	3.0
Hct l/l	0.166	0.015	0.376	0.024	0.513	0.030
MCV fl	68.9	4.0	83.8	4.0	92.1	4.0
MCH pg	23.7	2.4	29.9	2.8	31.8	2.8
MCH fmol	1.47	0.16	1.85	0.17	1.98	0.19
MCHC g/dl	34.4	3.0	35.6	3.0	34.6	3.0
MCHC mmol/l	21.3	2.0	22.1	2.0	21.5	2.0
RDW %	15.2	3.0	16.5	3.0	15.4	3.0
Ptits 10 ⁹ /l	82	20	247	35	465	60
MPV fl	8.0	2.0	7.5	2.0	7.7	2.0
LYMP %	54.7	6.0	30.1	4.0	15.0	4.0
MONO %	7.9	4.0	8.3	6.8	3.5	3.0
GRAN %	37.4	5.0	61.6	5.0	81.4	5.0
LYMP #	1.2	0.2	2.2	0.4	2.8	0.9
MONO #	0.2	0.2	0.6	0.6	0.7	0.7
GRAN #	0.9	0.2	4.5	0.4	15.2	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	2.4	0.4	7.5	0.8	18.0	2.0
RBC 10 ¹² /l	2.44	0.15	4.48	0.20	5.47	0.24
Hb g/dl	5.9	0.4	13.2	0.5	17.6	0.6
Hb mmol/l	3.7	0.3	8.2	0.4	10.9	0.5
Hct %	18.1	1.5	39.1	2.4	51.5	3.0
Hct l/l	0.181	0.015	0.391	0.024	0.515	0.030
MCV fl	74.2	4.0	87.3	4.0	94.1	4.0
MCH pg	24.3	2.4	29.5	2.8	32.2	2.8
MCH fmol	1.51	0.16	1.83	0.17	2.00	0.19
MCHC g/dl	32.7	3.0	33.8	3.0	34.2	3.0
MCHC mmol/l	20.3	2.0	21.0	2.0	21.2	2.0
Ptits 10 ⁹ /l	71	20	245	35	485	60
MPV fl	9.3	2.0	8.4	2.0	8.4	2.0
LYMP %	63.2	6.0	33.9	4.0	16.5	4.0
MID %	8.3	4.0	8.4	6.8	4.5	3.0
GRAN %	28.5	5.0	57.7	5.0	79.0	5.0
LYMP #	1.5	0.2	2.5	0.4	3.0	0.9
MID #	0.2	0.2	0.6	0.5	0.8	0.7
GRAN #	0.7	0.2	4.3	0.4	14.2	1.1

Coulter Counter: AcT diff, AcT diff 2

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 ⁹ /l	2.2	0.4	7.8	0.8	20.0	2.0
RBC 10 ¹² /l	2.41	0.15	4.52	0.20	5.58	0.24
Hb g/dl	6.0	0.4	13.4	0.5	17.8	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.1	0.5
Hct %	17.9	1.5	39.4	2.4	52.5	3.0
Hct l/l	0.179	0.015	0.394	0.024	0.525	0.030
MCV fl	74.2	4.0	87.3	4.0	94.1	4.0
MCH pg	25.0	2.4	29.6	2.8	31.9	2.8
MCH fmol	1.55	0.16	1.84	0.17	1.98	0.19
MCHC g/dl	33.7	3.0	34.0	3.0	33.9	3.0
MCHC mmol/l	20.9	2.0	21.1	2.0	21.1	2.0
RDW %	16.6	3.0	16.1	3.0	15.0	3.0
Ptits 10 ⁹ /l	75	20	248	35	496	60
MPV fl	8.4	2.0	7.9	2.0	8.2	2.0
LYMP %	64.9	6.0	33.5	4.0	15.2	4.0
MONO %	5.5	4.0	6.8	6.8	3.6	3.0
GRAN %	29.6	5.0	59.7	5.0	81.2	5.0
LYMP #	1.4	0.2	2.6	0.4	3.0	0.9
MONO #	0.1	0.1	0.5	0.5	0.7	0.7
GRAN #	0.7	0.2	4.7	0.4	16.2	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 %	51.3	6.0	25.4	4.0	10.7	4.0
LYMP #	1.1	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	2.2	0.4	7.8	0.8	20.1	2.0
RBC 10 ¹² /l	2.39	0.15	4.52	0.20	5.50	0.24
Hb g/dl	6.2	0.4	13.7	0.5	18.5	0.6
Hb mmol/l	3.8	0.3	8.5	0.4	11.5	0.5
Hct %	17.7	1.5	39.6	2.4	53.9	3.0
Hct l/l	0.177	0.015	0.396	0.024	0.539	0.030
MCV fl	74.2	4.0	87.7	4.0	98.0	4.0
MCH pg	25.7	2.4	30.3	2.8	33.7	2.8
MCH fmol	1.60	0.16	1.88	0.17	2.09	0.19
MCHC g/dl	34.7	3.0	34.5	3.0	34.4	3.0
MCHC mmol/l	21.5	2.0	21.4	2.0	21.3	2.0
RDW %	15.5	3.0	15.5	3.0	14.2	3.0
Ptits 10 ⁹ /l	77	20	254	35	518	60
MPV fl	8.4	2.0	6.9	2.0	6.7	2.0
LYMP %	67.4	8.0	35.3	4.0	19.3	4.0
MONO %	10.4	7.0	9.1	6.8	4.3	3.0
GRAN %	22.3	8.0	55.7	5.0	76.4	5.0
LYMP #	1.5	0.2	2.7	0.4	3.9	0.9
MONO #	0.2	0.2	0.7	0.5	0.9	0.7
GRAN #	0.5	0.4	4.3	0.4	15.4	1.1

Danam/Drew Excel18=MWI BT2100, D3; Orphee Mythic 18; Abbott Emerald 18

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 ⁹ /l	2.2	0.4	7.8	0.8	20.1	2.0
RBC 10 ¹² /l	2.41	0.15	4.52	0.20	5.58	0.24
Hb g/dl	5.8	0.4	13.4	0.5	17.8	0.6
Hb mmol/l	3.6	0.3	8.3	0.4	11.1	0.5
Hct %	17.4	1.5	39.5	2.4	52.7	3.0
Hct l/l	0.174	0.015	0.395	0.024	0.527	0.030
MCV fl	72.0	4.0	87.3	4.0	94.5	4.0
MCH pg	24.2	2.4	29.6	2.8	31.9	2.8
MCH fmol	1.50	0.16	1.84	0.17	1.98	0.19
MCHC g/dl	33.6	3.0	34.0	3.0	33.8	3.0
MCHC mmol/l	20.8	2.0	21.1	2.0	21.0	2.0
RDW %	14.7	3.0	13.5	3.0	12.5	3.0
Ptits 10 ⁹ /l	75	20	233	35	462	60
MPV fl	8.4	2.0	7.9	2.0	8.2	2.0
LYMP %	63.5	6.0	32.7	4.0	16.1	4.0
MONO %	3.7	3.7	5.3	5.3	2.5	2.5
GRAN %	32.8	5.0	62.0	5.0	81.4	5.0
LYMP #	1.4	0.2	2.6	0.4	3.2	0.9
MONO #	0.1	0.1	0.4	0.4	0.5	0.5
GRAN #	0.7	0.2	4.8	0.4	16.4	1.1

LOT : 206
 : 2014-02-19

Diatron:** Abacus, Abacus 3, Abacus Junior, Arcus; Erba: Elite 3

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 ⁹ /l	2.1	0.4	7.6	0.8	20.1	2.0
RBC 10 ¹² /l	2.46	0.15	4.66	0.20	5.68	0.24
Hb g/dl	6.3	0.4	13.5	0.5	18.4	0.6
Hb mmol/l	3.9	0.3	8.4	0.4	11.4	0.5
Hct %	19.0	1.5	42.5	2.4	56.3	3.0
Hct l/l	0.190	0.015	0.425	0.024	0.563	0.030
MCV fl	77.3	4.0	91.3	4.0	99.2	4.0
MCH pg	25.5	2.4	29.0	2.8	32.3	2.8
MCH fmol	1.58	0.16	1.80	0.17	2.01	0.19
MCHC g/dl	33.0	3.0	31.8	3.0	32.6	3.0
MCHC mmol/l	20.5	2.0	19.7	2.0	20.2	2.0
RDW-SD fl	57.3	5.0	63.4	5.0	64.7	5.0
RDW-CV %	16.3	3.0	15.3	3.0	14.4	3.0
Plts 10 ⁹ /l	69	20	250	35	498	60
MPV fl	8.2	2.0	7.9	2.0	7.8	2.0
PCT %	0.06	0.02	0.20	0.06	0.39	0.10
PCT ml/l	0.56	0.2	1.97	0.3	3.91	0.4
PDW-SD fl	10.7	3.0	10.7	3.0	10.6	3.0
PDW-CV %	36.4	3.0	37.8	3.0	37.7	3.0
LYMP %	58.8	6.0	31.8	4.0	13.1	4.0
MONO %	6.7	6.0	7.7	6.8	5.8	3.0
GRAN %	34.4	6.0	60.5	5.0	81.1	6.0
LYMP #	1.2	0.2	2.4	0.4	2.6	0.9
MONO #	0.2	0.2	0.6	0.6	1.2	0.7
GRAN #	0.7	0.2	4.6	0.4	16.3	1.1

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

Avantor BeneSpera™ 3 (QC-Mode)

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 ⁹ /l	2.2	0.4	7.8	0.8	20.0	2.0
RBC 10 ¹² /l	2.41	0.15	4.42	0.20	5.38	0.24
Hb g/dl	6.0	0.4	13.9	0.5	18.3	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.4	0.5
Hct %	17.9	1.5	39.4	2.4	52.5	3.0
Hct l/l	0.179	0.015	0.394	0.024	0.525	0.030
MCV fl	74.2	4.0	87.3	4.0	94.1	4.0
MCH pg	25.0	2.4	31.4	2.8	34.1	2.8
MCH fmol	1.55	0.2	1.88	0.2	2.11	0.2
MCHC g/dl	33.7	3.0	35.2	3.0	34.9	3.0
MCHC mmol/l	20.9	2.0	21.1	2.0	21.6	2.0
RDW-CV %	19.5	3.0	16.1	3.0	12.9	3.0
RDW-SD fl	50.9	5.0	49.0	5.0	41.6	5.0
Plts 10 ⁹ /l	75	20	238	35	466	60
MPV fl	10.3	2.0	10.2	2.0	10.1	2.0
PCT %	0.08	0.02	0.24	0.06	0.47	0.10
PCT ml/l	0.77	0.20	2.42	0.30	4.70	0.40
PDW %	11.5	3.0	18.0	3.0	17.9	3.0
LYMP %	48.1	8.0	21.2	5.0	10.3	4.0
MONO %	21.0	6.0	15.5	5.0	6.0	6.0
GRAN %	30.9	6.0	63.3	8.0	83.7	8.0
LYMP #	1.1	0.2	1.7	0.4	2.1	0.9
MONO #	0.5	0.5	1.2	0.5	1.2	0.7
GRAN #	0.7	0.2	4.9	0.8	16.7	1.1

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

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 ⁹ /l	2.2	0.4	8.0	0.8	21.0	2.0
RBC 10 ¹² /l	2.52	0.15	4.53	0.20	5.43	0.24
Hb g/dl	5.8	0.4	12.9	0.5	17.1	0.6
Hb mmol/l	3.6	0.3	8.0	0.4	10.6	0.5
Hct %	19.5	1.5	40.9	2.4	54.9	3.0
Hct l/l	0.195	0.015	0.409	0.024	0.549	0.030
MCV fl	77.2	4.0	90.3	4.0	101.1	4.0
MCH pg	23.1	2.4	28.5	2.8	31.5	2.8
MCH fmol	1.44	0.16	1.77	0.17	1.96	0.19
MCHC g/dl	30.0	3.0	31.5	3.0	31.2	3.0
MCHC mmol/l	18.6	2.0	19.6	2.0	19.3	2.0
RDW %	19.6	3.0	17.6	3.0	16.4	3.0
Plts 10 ⁹ /l	85	20	264	35	524	60
MPV fl	9.2	2.0	8.3	2.0	8.7	2.0
PDW %	16.5	3.0	15.4	3.0	14.1	3.0
LYMP %	55.2	6.0	35.7	4.0	28.1	4.0
MONO %	1.9	1.9	4.7	4.7	1.5	1.5
GRAN %	42.9	5.0	59.6	5.0	70.4	5.0
LYMP #	1.2	0.2	2.9	0.4	5.9	0.9
MONO #	0.1	0.1	0.4	0.4	0.3	0.3
GRAN #	0.9	0.2	4.8	0.4	14.8	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 %	68.3	6.0	40.4	4.0	19.6	4.0
MONO %	7.6	4.0	9.6	6.8	5.8	3.0
GRAN %	24.1	5.0	50.1	5.0	74.6	5.0
LYMP #	1.5	0.2	3.1	0.4	3.9	0.9
MONO #	0.2	0.2	0.7	0.7	1.2	0.7
GRAN #	0.5	0.2	3.9	0.4	15.0	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 %	76.7	6.0	42.5	4.0	20.7	4.0
MONO %	6.7	4.0	8.9	6.8	5.5	3.0
GRAN %	16.6	5.0	48.6	5.0	73.9	5.0
LYMP #	1.7	0.2	3.3	0.4	4.2	0.9
MONO #	0.1	0.1	0.7	0.7	1.1	0.7
GRAN #	0.4	0.2	3.8	0.4	14.8	1.1

Inmesco HM1060; Rayto RT-7600; HTI Micros CC 20 Plus (all QC-Mode)

Parameters	LOW		NORMAL		HIGH	
	Mean	Range ±	Mean	Range ±	Mean	Range ±
WBC 10 ⁹ /l	2.2	0.4	7.8	0.8	20.0	2.0
RBC 10 ¹² /l	2.41	0.15	4.42	0.20	5.38	0.24
Hb g/dl	6.0	0.4	13.9	0.5	18.3	0.6
Hb mmol/l	3.7	0.3	8.3	0.4	11.4	0.5
Hct %	17.9	1.5	39.4	2.4	52.5	3.0
Hct l/l	0.179	0.015	0.394	0.024	0.525	0.030
MCV fl	74.2	4.0	87.3	4.0	94.1	4.0
MCH pg	25.0	2.4	31.4	2.8	34.1	2.8
MCH fmol	1.55	0.2	1.88	0.2	2.11	0.2
MCHC g/dl	33.7	3.0	35.2	3.0	34.9	3.0
MCHC mmol/l	20.9	2.0	21.1	2.0	21.6	2.0
RDW-CV %	19.5	3.0	16.1	3.0	12.9	3.0
RDW-SD fl	50.9	5.0	49.0	5.0	41.6	5.0
Plts 10 ⁹ /l	75	20	238	35	466	60
MPV fl	10.3	2.0	10.2	2.0	10.1	2.0
PCT %	0.08	0.02	0.24	0.06	0.47	0.10
PCT ml/l	0.77	0.20	2.42	0.30	4.70	0.40
PDW %	11.5	3.0	18.0	3.0	17.9	3.0
LYMP %	48.1	8.0	21.2	5.0	10.3	4.0
MONO %	21.0	6.0	15.5	5.0	6.0	6.0
GRAN %	30.9	6.0	63.3	8.0	83.7	8.0
LYMP #	1.1	0.2	1.7	0.4	2.1	0.9
MONO #	0.5	0.5	1.2	0.5	1.2	0.7
GRAN #	0.7	0.2	4.9	0.8	16.7	1.1

Orphee MYTHIC 18

Please refer now to Danam/Drew table



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



