

LOW CONTROL		Sysmex K1000 K-4500	Sysmex KX21N, XP300	Abbott CELL-DYN	Mindray BC-2800 BC-3000	ABX Micros45/60	Nihon Kohden MEK SERIES CELTAC ALPHA	MEDONIC CA series Swelab	ORPHEE MYTHIC 18	
LOT 03-2408 EXP: 2024-11-30										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	mean	+ Range
WBC	x10 <sup>9</sup> /L	2.5	2.5	2.77	2.7	3.0	2.5	2.7	2.7	0.6
Lymph #	x10 <sup>9</sup> /L	Na	2.2	2.2	2.1	2.2	2.0	2.2	2.0	1.0
Mid # (Mxd*)	x10 <sup>9</sup> /L	Na	0.2	0.2	Na	0.2	Na	Na	Na	0.4
Gran#(Neut*)	x10 <sup>9</sup> /L	Na	1.5	1.5	Na	1.5	Na	Na	Na	0.8
Lymph	%	Na	57.0	57.0	52.0	57.0	48.0	57.0	48.0	10
Mid (Mxd*)	%	Na	6.0	6.0	Na	6.0	Na	Na	Na	5.0
Gran (Neut*)	%	Na	37	37	Na	37	Na	Na	Na	10
RBC	x10 <sup>12</sup> /L	3.13	3.08	2.91	3.05	2.99	2.98	2.91	2.95	0.20
Hgb	g/dL	6.9	7.0	7.6	7.1	7.6	7.2	7.3	7.6	0.5
Hct	%	21.9	21.5	21.3	21.6	21.7	21.3	21.0	21.1	3.0
MCV	fL	69.9	69.8	75.0	70.8	74.0	71.5	74.0	74.0	5.0
MCH	pg	22.0	22.7	26.1	23.2	25.4	24.1	25.0	25.7	3.0
MCHC	g/dL	31.5	32.5	35.8	32.8	35.0	33.8	34.8	36.0	3.0
RDW-CV	%	15.8	15.2	12.0	18.0	11.5	15.0	11.5	11.5	3.5
PLT	x10 <sup>9</sup> /L	83	79	68	95	70	79	70	70	30
MPV	fL	10.7	11.0	10.5	10.2	10.8	10.5	10.8	10.5	2.0
NORMAL CONTROL		Sysmex K1000 K-4500	Sysmex KX21N, XP300	Abbott CELL-DYN	Mindray BC-2800 BC-3000	ABX Micros45/60	Nihon Kohden MEK SERIES CELTAC ALPHA	MEDONIC CA series Swelab	ORPHEE MYTHIC 18	
LOT 03-2408 EXP: 2024-11-30										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	7.0	6.9	6.8	7.1	6.8	6.9	6.8	6.9	1.2
Lymph #	x10 <sup>9</sup> /L	Na	2.7	2.8	2.8	2.8	2.8	2.8	Na	1.5
Mid # (Mxd*)	x10 <sup>9</sup> /L	Na	0.5	0.7	0.7	0.7	0.4	0.7	Na	0.3
Gran#(Neut*)	x10 <sup>9</sup> /L	Na	3.5	4.2	4.2	4.2	4.0	4.2	Na	1.2
Lymph	%	Na	39.5	40.0	38.0	40.0	39.5	40.0	40.0	10
Mid (Mxd*)	%	Na	7.0	7.0	8.0	7.0	7.0	7.0	7.0	5.0
Gran (Neut*)	%	Na	53.5	53.0	54.0	53.0	53.5	53.0	53.0	10
RBC	x10 <sup>12</sup> /L	4.40	4.30	4.36	4.30	4.37	4.20	4.33	4.37	0.25
Hgb	g/dL	12.9	12.9	12.7	12.6	13.0	13.0	12.7	12.8	0.6
Hct	%	35.1	34.5	34.7	36.4	35.2	34.7	34.2	34.7	3.0
MCV	fL	79.7	80.2	82.0	84.6	82.5	82.6	79.6	81.0	6.0
MCH	pg	29.3	30.0	29.2	29.3	29.8	30.9	29.4	29.4	3.0
MCHC	g/dL	36.7	37.4	36.7	34.6	37.1	37.4	37.3	37.0	3.0
RDW-CV	%	14.5	12.0	12.0	13.8	12.0	11.8	12.0	12.0	3.5
PLT	x10 <sup>9</sup> /L	228	223	210	240	220	228	215	210	50
MPV	fL	10.0	11.0	9.8	10.0	10.7	10.5	10.7	10.7	3.0
HIGH CONTROL		Sysmex K1000 K-4500	Sysmex KX21N, XP300	Abbott CELL-DYN	Mindray BC-2800 BC-3000	ABX Micros45/60	Nihon Kohden MEK SERIES CELTAC ALPHA	MEDONIC CA series Swelab	ORPHEE MYTHIC 18	
LOT 03-2408 EXP: 2024-11-30										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	17.5	17.5	18.6	19.9	19.0	17.9	18.5	18.0	2.0
Lymph #	x10 <sup>9</sup> /L	Na	17.0	17.0	16.0	17.0	16.0	17.0	17.0	1.5
Mid # (Mxd*)	x10 <sup>9</sup> /L	Na	Na	Na	Na	Na	Na	Na	Na	1.0
Gran#(Neut*)	x10 <sup>9</sup> /L	Na	Na	Na	Na	Na	Na	Na	Na	5.5
Lymph	%	Na	88.0	88.0	76.0	88.0	76.0	88.0	88.0	10
Mid (Mxd*)	%	Na	Na	Na	Na	Na	Na	Na	Na	5.0
Gran (Neut*)	%	Na	Na	Na	Na	Na	Na	Na	Na	10
RBC	x10 <sup>12</sup> /L	5.35	5.30	5.24	5.23	5.22	5.18	5.11	5.17	0.30
Hgb	g/dL	17.3	17.8	17.5	16.8	17.7	18.0	17.6	17.6	1.0
Hct	%	44.9	44.3	44.5	46.7	45.2	45.3	44.2	44.5	4.0
MCV	fL	83.9	83.6	83.8	89.3	85.8	87.4	84.8	84.8	6.0
MCH	pg	32.3	33.5	33.4	32.1	34.0	34.7	34.5	34.1	3.0
MCHC	g/dL	38.5	40.1	39.4	36.0	39.2	39.7	40.0	39.6	3.0
RDW-CV	%	14.2	13.8	14.2	15.0	13.2	12.7	13.2	13.2	3.5
PLT	x10 <sup>9</sup> /L	588	585	560	550	551	588	553	549	70
MPV	fL	9.0	9.8	9.0	8.5	8.0	9.5	9.0	8.0	3.0

LOW CONTROL		DIAGON D-CELL30 60 Series	BAYER SEIMENS ADVIA60	HYCELL/ MS9	ERMA CONVERGENT	Diatron Abacus Jr.	PROKAN PE6800	Coulter	RAYTO	± Range
LOT 03-2408 EXP: 2024-11-30										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	2.7	3.0	2.7	2.77	2.7	3.1	2.7	3.0	0.6
Lymph #	x10 <sup>9</sup> /L	2.1	2.2	2.2	2.2	2.2	2.1	2.1	2.2	1.0
Mid # (Mxd*)	x10 <sup>9</sup> /L	Na	0.2	Na	0.2	Na	Na	Na	0.2	0.4
Gran # (Neut*)	x10 <sup>9</sup> /L	Na	1.5	Na	1.5	Na	Na	Na	1.5	0.8
Lymph %	%	52.0	57.0	57.0	57.0	57.0	52.0	52.0	57.0	10
Mid (Mxd*)	%	Na	6.0	Na	6.0	Na	Na	Na	6.0	5.0
Gran (Neut*)	%	Na	37	Na	37	Na	Na	Na	37	10
RBC	x10 <sup>12</sup> /L	3.05	2.99	2.91	2.91	2.91	2.7	2.91	2.99	0.20
Hgb	g/dL	7.1	7.6	7.3	7.6	7.3	7.4	7.6	7.6	0.5
Hct	%	21.6	21.7	21.0	21.3	21.0	19.8	21.8	21.7	3.0
MCV	fL	70.8	74.0	74.0	75.0	74.0	73.3	75.0	74.0	5.0
MCH	pg	23.2	25.4	25.0	26.1	25.0	27.4	26.1	25.4	3.0
MCHC	g/dL	32.8	35.0	34.8	35.8	34.8	37.4	34.9	35.0	3.0
RDW-CV	%	18.0	11.5	11.5	12.0	11.5	20.0	12.5	11.5	3.5
PLT	x10 <sup>9</sup> /L	95	70	70	68	70	99	70	70	30
MPV	fL	10.2	10.8	10.8	10.5	10.8	9.5	10.5	10.8	2.0
NORMAL CONTROL		DIAGON D-CELL30 60 Series	BAYER SEIMENS ADVIA60	HYCELL/ MS9	ERMA CONVERGENT	Diatron Abacus Jr.	PROKAN PE6800	Coulter	RAYTO	± Range
LOT 03-2408 EXP: 2024-11-30										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	7.1	6.8	6.8	6.8	6.8	7.4	6.9	6.8	1.2
Lymph #	x10 <sup>9</sup> /L	2.8	2.8	2.8	2.8	2.8	2.5	2.7	2.8	1.5
Mid # (Mxd*)	x10 <sup>9</sup> /L	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.3
Gran # (Neut*)	x10 <sup>9</sup> /L	4.2	4.2	4.2	4.2	4.2	4.0	4.0	4.2	1.2
Lymph %	%	38.0	40.0	40.0	40.0	40.0	38.0	40.0	40.0	10
Mid (Mxd*)	%	8.0	7.0	7.0	7.0	7.0	8	7.0	7.0	5.0
Gran (Neut*)	%	54.0	53.0	53.0	53.0	53.0	54.0	53.0	53.0	10
RBC	x10 <sup>12</sup> /L	4.30	4.37	4.33	4.36	4.33	4.46	4.33	4.37	0.25
Hgb	g/dL	12.6	13.0	12.7	12.7	12.7	12.7	13.0	13.0	0.6
Hct	%	36.4	35.2	34.2	34.7	34.2	36.5	34.7	35.2	3.0
MCV	fL	84.6	82.5	79.6	82.0	79.6	81.8	84.6	82.5	6.0
MCH	pg	29.3	29.8	29.4	29.2	29.4	28.4	30.0	29.8	3.0
MCHC	g/dL	34.6	37.1	37.3	36.7	37.3	34.8	37.3	37.1	3.0
RDW-CV	%	13.8	12.0	12.0	12.0	12.0	15.2	12.2	12.0	3.5
PLT	x10 <sup>9</sup> /L	240	220	215	210	215	250	220	220	50
MPV	fL	10.0	10.7	10.7	9.8	10.7	8.5	9.8	10.7	3.0
HIGH CONTROL		DIAGON D-CELL30 60 Series	BAYER SEIMENS ADVIA60	HYCELL/ MS9	ERMA CONVERGENT	Diatron Abacus Jr.	PROKAN PE6800	Coulter	RAYTO	± Range
LOT 03-2408 EXP: 2024-11-30										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	19.6	19.0	18.5	18.6	18.5	19.5	18.6	19.0	2.0
Lymph #	x10 <sup>9</sup> /L	16.0	17.0	17.0	17.0	17.0	16.0	16.0	17.0	1.5
Mid # (Mxd*)	x10 <sup>9</sup> /L	Na	Na	Na	Na	Na	Na	Na	Na	1.0
Gran # (Neut*)	x10 <sup>9</sup> /L	Na	Na	Na	Na	Na	Na	Na	Na	5.5
Lymph %	%	76.0	88.0	88.0	88.0	88.0	76.0	76.0	88.0	10
Mid (Mxd*)	%	Na	Na	Na	Na	Na	Na	Na	Na	5.0
Gran (Neut*)	%	Na	Na	Na	Na	Na	Na	Na	Na	10
RBC	x10 <sup>12</sup> /L	5.23	5.22	5.11	5.24	5.11	5.52	5.18	5.22	0.30
Hgb	g/dL	16.8	17.7	17.6	17.5	17.6	18.1	17.6	17.7	1.0
Hct	%	46.7	45.2	44.2	44.5	44.2	49.0	43.2	45.2	4.5
MCV	fL	89.3	85.8	84.8	83.8	84.8	88.3	85.8	85.8	6.0
MCH	pg	32.1	34.0	34.5	33.4	34.5	32.6	34.0	34.0	3.0
MCHC	g/dL	36.0	39.2	40.0	39.4	40.0	37.0	40.8	39.2	3.0
RDW-CV	%	15.0	13.2	13.2	14.2	13.2	14.5	13.2	13.2	3.5
PLT	x10 <sup>9</sup> /L	550	551	553	560	553	545	548	551	70
MPV	fL	8.5	8.0	9.0	9.0	9.0	8.0	8.2	8.0	3.0

LOW CONTROL		Sysmex XS-500i, XS-800i XS-1000i	Sysmex XT-1800i XT-2000i	Sysmex XE-2100 XE-5000	Sysmex XN- Series	MINDRAY BC-5 series	MINDRAY BC-6800 BC-6800+	MINDRAY BC-6000 BC-6200	MINDRAY BC-700 series	± Range
LOT 03-2408 EXP: 2024-11-30										
Parameters										
WBC	x10 <sup>9</sup> /L	2.3	2.4	2.4	2.4	2.52	2.3	2.3	2.3	0.7
RBC	x10 <sup>12</sup> /L	3.04	3.14	3.14	3.05	3.08	3.17	3.09	3.03	0.20
Hgb	g/dL	7.3	7.3	7.3	7.4	7.5	7.3	7.2	7.0	0.5
Hct	%	22.6	22.0	22.0	22.0	22.2	22.2	22.7	22.1	3.0
MCV	fL	74.3	70.0	70.0	72.1	72.0	70.0	73.5	72.9	5.0
MCH	pg	24.0	23.2	23.2	24.2	24.3	23.0	23.3	23.1	3.0
MCHC	g/dL	32.3	33.1	33.1	33.6	33.7	32.8	31.7	31.6	3.0
RDW-CV	%	17.7	18.0	18.0	18.5	16.6	16.0	18.7	18.5	3.5
PLT	x10 <sup>9</sup> /L	78	85	85	79	80	90	78	82	30
MPV	fL	11.5	10.7	10.7	11.8	9.5	9.5	12.3	12.3	2.0
NORMAL CONTROL		Sysmex XS-500i, XS-800i XS-1000i	Sysmex XT-1800i XT-2000i	Sysmex XE-2100 XE-5000	Sysmex XN- Series	MINDRAY BC-5 series	MINDRAY BC-6800 BC-6800+	MINDRAY BC-6000 BC-6200	MINDRAY BC-700 series	± Range
LOT 03-2408 EXP: 2024-11-30										
Parameters										
WBC	x10 <sup>9</sup> /L	6.9	6.9	6.9	5.6	7.2	6.7	6.0	6.7	1.2
RBC	x10 <sup>12</sup> /L	4.34	4.41	4.41	4.25	4.28	4.40	4.36	4.32	0.25
Hgb	g/dL	13.0	13.0	13.0	13.1	13.0	12.8	12.7	12.6	0.6
Hct	%	36.8	36.0	36.0	35.3	37.0	36.8	38.6	38.3	3.0
MCV	fL	84.8	81.6	81.6	83.0	86.4	83.6	88.5	88.6	6.0
MCH	pg	29.9	29.5	29.5	30.8	30.3	28.8	29.1	29.1	3.0
MCHC	g/dL	35.3	36.1	36.1	37.1	35.1	34.5	32.9	32.9	3.0
RDW-CV	%	14.8	14.5	14.5	14.6	13.2	14.0	15.3	15.5	5.0
PLT	x10 <sup>9</sup> /L	225	230	230	230	220	255	232	245	50
MPV	fL	11.0	10.7	10.7	11.5	9.8	10.0	12.0	12.0	3.0
HIGH CONTROL		Sysmex XS-500i, XS-800i XS-1000i	Sysmex XT-1800i XT-2000i	Sysmex XE-2100 XE-5000	Sysmex XN- Series	MINDRAY BC-5 series	MINDRAY BC-6800 BC-6800+	MINDRAY BC-6000 BC-6200	MINDRAY BC-700 series	± Range
LOT 03-2408 EXP: 2024-11-30										
Parameters										
WBC	x10 <sup>9</sup> /L	17.5	17.3	17.3	12.7	17.8	16.6	17.5	17.5	2.0
RBC	x10 <sup>12</sup> /L	5.38	5.40	5.40	5.30	5.27	5.45	5.30	5.22	0.35
Hgb	g/dL	17.5	17.4	17.4	17.5	17.2	16.9	16.8	16.5	1.0
Hct	%	47.0	45.0	45.0	45.5	48.0	47.5	49.6	48.8	5.5
MCV	fL	87.3	83.3	83.3	85.8	91.0	87.1	93.6	93.5	7.0
MCH	pg	32.5	32.2	32.2	33.0	32.6	31.0	31.7	31.6	3.0
MCHC	g/dL	37.2	38.6	38.6	38.4	35.8	35.6	33.9	33.8	3.0
RDW-CV	%	15.5	15.5	15.5	15.2	13.6	14.0	15.5	15.5	3.5
PLT	x10 <sup>9</sup> /L	595	570	570	555	558	628	615	630	75
MPV	fL	9.6	9.7	9.7	9.8	8.3	8.5	10.0	10.0	3.0

\*To use the control for 5part-Diff instrument, Please set the instrument on CBC-mode function then do the sampling.

CONTROL		ABX PENTRA6 060C,120	PENTRA 80, 80XL	Zybio	ORPHEE MYTHIC22 22AL	ORPHEE MYTHIC60	NihonKohden CELLTAC E,ES CELLTAC F	Nihon Kohden CELLTAC G	± Range
LOT 03-2408 EXP: 2024-11-30									
Parameters									
WBC	x10 <sup>9</sup> /L	2.5	2.5	2.5	1.1	1.5	2.6	2.5	0.8
RBC	x10 <sup>12</sup> /L	3.08	3.08	3.06	2.95	3.08	3.08	3.03	0.20
Hgb	g/dL	7.0	7.0	7.1	7.4	7.7	7.2	6.6	0.5
Hct	%	21.5	21.5	21.6	20.7	21.8	23.4	23.0	3.0
MCV	fL	69.8	69.8	70.5	70.1	70.7	75.9	75.9	5.0
MCH	pg	22.7	22.7	23.2	25.0	25.0	23.3	21.8	3.0
MCHC	g/dL	32.5	32.5	32.8	35.7	35.3	30.7	28.7	3.0
RDW-CV	%	15.2	15.2	17.5	16.0	15.5	17.0	16.0	3.5
PLT	x10 <sup>9</sup> /L	79	79	93	85	88	88	95	30
MPV	fL	11.0	11.0	12.5	13.5	13.7	9.0	10.2	2.0
NORMAL CONTROL		ABX PENTRA6 060C,120	PENTRA 80, 80XL	Zybio	ORPHEE MYTHIC22 22AL	ORPHEE MYTHIC60	NihonKohden CELLTAC E,ES CELLTAC F	Nihon Kohden CELLTAC G	± Range
LOT 03-2408 EXP: 2024-11-30									
Parameters									
WBC	x10 <sup>9</sup> /L	6.9	6.9	6.8	4.4	5.5	7.1	6.4	1.2
RBC	x10 <sup>12</sup> /L	4.30	4.30	4.30	4.17	4.25	4.30	4.26	0.25
Hgb	g/dL	12.9	12.9	12.6	12.8	13.3	13.0	12.2	0.6
Hct	%	34.5	34.5	36.9	34.5	35.5	36.6	39.8	3.0
MCV	fL	80.2	80.2	85.8	82.7	83.5	85.1	93.5	6.0
MCH	pg	30.0	30.0	29.3	30.7	31.2	30.2	28.6	3.0
MCHC	g/dL	37.4	37.4	34.1	37.1	37.4	35.5	30.6	3.0
RDW-CV	%	12.0	12.0	14.7	13.0	13.8	15.0	15.5	5.0
PLT	x10 <sup>9</sup> /L	223	223	245	218	245	243	248	50
MPV	fL	11.0	11.0	12.5	13.2	12.0	9.0	9.4	3.0
HIGH CONTROL		ABX PENTRA6 060C,120	PENTRA 80, 80XL	Zybio	ORPHEE MYTHIC22 22AL	ORPHEE MYTHIC60	NihonKohden CELLTAC E,ES CELLTAC F	Nihon Kohden CELLTAC G	± Range
LOT 03-2408 EXP: 2024-11-30									
Parameters									
WBC	x10 <sup>9</sup> /L	17.5	17.5	17.6	7.0	9.0	18.5	17.9	2.0
RBC	x10 <sup>12</sup> /L	5.30	5.30	5.28	5.10	5.20	5.19	5.28	0.30
Hgb	g/dL	17.8	17.8	17.0	16.9	17.3	17.4	17.3	1.0
Hct	%	44.3	44.3	47.6	43.5	46.3	47.2	52.5	5.0
MCV	fL	83.6	83.6	90.1	85.3	89.0	90.9	99.4	7.0
MCH	pg	33.5	33.5	32.2	33.1	33.2	33.7	32.7	3.0
MCHC	g/dL	40.1	40.1	35.7	38.8	37.3	36.8	32.9	3.0
RDW-CV	%	13.8	13.8	15.7	14.5	15.4	15.0	17.0	3.5
PLT	x10 <sup>9</sup> /L	585	585	560	540	605	595	580	75
MPV	fL	9.8	9.8	10.8	11.0	12.8	8.7	9.0	3.0

\*To use the control for 5part-Diff instrument, Please set the instrument on CBC-mode function then do the sampling.

# LABXCO

LOT 03-2408    2024-11-30

14 Days open vial

CONTROL		DANAM DATACELL 16/18	BACKER 9110PLUS	
LOT 03-2408 EXP: 2024-11-30				
Parameters		Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	2.7	2.7	0.8
RBC	x10 <sup>12</sup> /L	2.95	2.99	0.20
Hgb	g/dL	7.6	7.7	0.5
Hct	%	21.1	21.9	3.0
MCV	fL	74.0	73.2	5.0
MCH	pg	25.7	25.7	3.0
MCHC	g/dL	36.0	35.1	3.0
RDW-CV	%	11.5	12.5	3.5
PLT	x10 <sup>9</sup> /L	70	65	30
MPV	fL	10.5	11.0	2.0
NORMAL CONTROL		DANAM DATACELL 16/18	BACKER 9110PLUS	
LOT 03-2408 EXP: 2024-11-30				
Parameters		Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	6.9	6.8	1.2
RBC	x10 <sup>12</sup> /L	4.37	4.37	0.25
Hgb	g/dL	12.8	13.0	0.6
Hct	%	34.7	35.2	3.0
MCV	fL	81.0	82.5	6.0
MCH	pg	29.4	29.8	3.0
MCHC	g/dL	37.0	37.1	3.0
RDW-CV	%	12.0	12.0	5.0
PLT	x10 <sup>9</sup> /L	210	220	50
MPV	fL	10.7	10.7	3.0
HIGH CONTROL		DANAM DATACELL 16/18	BACKER 9110PLUS	
LOT 03-2408 EXP: 2024-11-30				
Parameters		Mean	Mean	± Range
WBC	x10 <sup>9</sup> /L	18.0	19.0	2.0
RBC	x10 <sup>12</sup> /L	5.17	5.22	0.30
Hgb	g/dL	17.6	17.7	1.0
Hct	%	44.5	45.2	5.0
MCV	fL	84.8	85.8	7.0
MCH	pg	34.1	34.0	3.0
MCHC	g/dL	39.6	39.2	3.0
RDW-CV	%	13.2	13.2	3.5
PLT	x10 <sup>9</sup> /L	549	551	75
MPV	fL	8.0	8.0	3.0