

LOW CONTROL		Sysmex K1000 K-4500	Sysmex KX21N, XP300 XP100	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 04-2411 EXP: 2025-02-27										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	mean	+ Range
WBC	x10 ⁹ /L	2.4	2.4	2.6	2.6	2.9	2.4	2.6	2.6	0.6
Lymph #	x10 ⁹ /L	Na	2.2	2.2	2.1	2.2	2.0	2.2	2.0	1.0
Mid # (Mxd*)	x10 ⁹ /L	Na	0.2	0.2	Na	0.2	Na	Na	Na	0.4
Gran#(Neut*)	x10 ⁹ /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 ¹² /L	3.15	3.10	3.02	3.08	3.10	3.05	3.02	3.06	0.20
Hgb	g/dL	8.1	8.2	8.3	8.3	8.3	8.3	8.0	8.3	0.5
Hct	%	25.3	24.9	24.3	25.3	24.7	24.7	24.0	24.1	3.0
MCV	fL	80.3	80.3	80.5	82.1	81.4	80.9	81.4	81.4	5.0
MCH	pg	25.7	26.4	27.4	26.9	26.7	27.2	26.4	27.1	3.0
MCHC	g/dL	32.0	32.9	34.1	32.8	33.6	33.6	33.3	34.4	3.0
RDW-CV	%	15.3	14.7	13.0	14.5	13.0	14.0	13.0	13.0	3.5
PLT	x10 ⁹ /L	82	78	79	88	79	78	80	79	30
MPV	fL	10.1	10.4	10.5	8.1	10.8	10.0	10.8	10.9	2.0
NORMAL CONTROL		Sysmex K1000 K-4500	Sysmex KX21N, XP300 XP100	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 04-2411 EXP: 2025-02-27										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	7.0	6.9	6.8	7.2	6.8	6.9	6.8	6.8	1.2
Lymph #	x10 ⁹ /L	Na	3.2	2.8	3.2	2.8	3.2	2.8	Na	1.5
Mid # (Mxd*)	x10 ⁹ /L	Na	0.6	0.7	0.6	0.7	0.6	0.7	Na	0.3
Gran#(Neut*)	x10 ⁹ /L	Na	3.0	4.2	3.0	4.2	3.0	4.2	Na	1.2
Lymph	%	Na	48.0	46.0	48.0	46.0	48.0	46.0	46.0	10
Mid (Mxd*)	%	Na	8.0	8.0	8.0	8.0	8.0	8.0	8.0	5.0
Gran (Neut*)	%	Na	44.0	46.0	44.0	46.0	44.0	46.0	46.0	10
RBC	x10 ¹² /L	4.48	4.38	4.31	4.39	4.32	4.28	4.28	4.32	0.25
Hgb	g/dL	13.3	13.3	13.1	13.1	13.4	13.3	13.1	13.2	0.6
Hct	%	37.9	37.3	36.8	39.2	37.3	37.5	36.3	36.8	3.0
MCV	fL	84.6	85.1	85.0	89.3	85.4	87.6	82.5	84.0	6.0
MCH	pg	29.6	30.3	30.4	29.8	31.0	31.0	30.6	30.6	3.0
MCHC	g/dL	35.0	35.6	35.6	33.4	35.9	35.4	36.1	35.9	3.0
RDW-CV	%	15.0	13.8	13.0	15.2	13.0	13.5	13.0	13.0	3.5
PLT	x10 ⁹ /L	220	218	208	215	215	223	210	210	50
MPV	fL	11.0	10.0	10.1	8.1	10.1	10.5	10.1	10.1	3.0
HIGH CONTROL		Sysmex K1000 K-4500	Sysmex KX21N, XP300 XP100	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 04-2411 EXP: 2025-02-27										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	19.6	19.6	19.8	21.6	20.2	19.9	19.7	19.2	2.0
Lymph #	x10 ⁹ /L	Na	17.0	17.0	16.0	17.0	16.0	17.0	17.0	1.5
Mid # (Mxd*)	x10 ⁹ /L	Na	Na	Na	Na	Na	Na	Na	Na	1.0
Gran#(Neut*)	x10 ⁹ /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 ¹² /L	5.50	5.45	5.29	5.38	5.27	5.33	5.16	5.22	0.30
Hgb	g/dL	17.3	17.8	17.8	17.3	18.0	18.0	17.9	17.9	1.0
Hct	%	48.2	47.6	46.5	49.9	47.2	48.6	46.2	46.5	4.0
MCV	fL	87.6	87.3	86.7	92.7	88.7	91.1	87.7	87.7	6.0
MCH	pg	31.4	32.6	33.6	32.1	34.2	33.7	34.7	34.3	3.0
MCHC	g/dL	35.9	37.4	38.3	34.7	38.1	37.0	38.7	38.5	3.0
RDW-CV	%	15.2	15.0	15.0	16.0	14.1	13.8	14.1	14.1	3.5
PLT	x10 ⁹ /L	540	535	530	540	531	540	525	525	70
MPV	fL	10.0	10.7	10.2	8.5	9.2	10.3	9.2	9.2	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 04-2411 EXP: 2025-02-27										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	2.6	2.9	2.6	2.6	2.6	3.1	2.6	2.6	0.6
Lymph #	x10 ⁹ /L	2.1	2.2	2.2	2.2	2.2	2.1	2.2	2.1	1.0
Mid # (Mxd*)	x10 ⁹ /L	Na	0.2	Na	0.2	Na	Na	0.2	Na	0.4
Gran #(Neut*)	x10 ⁹ /L	Na	1.5	Na	1.5	Na	Na	1.5	Na	0.8
Lymph %	%	52.0	57.0	57.0	57.0	57.0	52.0	57.0	52.0	10
Mid (Mxd*)	%	Na	6.0	Na	6.0	Na	Na	6.0	Na	5.0
Gran (Neut*)	%	Na	37	Na	37	Na	Na	37	Na	10
RBC	x10 ¹² /L	3.08	3.10	3.02	3.02	3.02	2.7	3.02	3.08	0.20
Hgb	g/dL	8.3	8.3	8.0	8.3	8.0	7.4	8.3	8.3	0.5
Hct	%	25.3	24.7	24.0	24.8	24.0	19.8	24.8	25.3	3.0
MCV	fL	82.1	81.4	81.4	82.4	81.4	73.3	82.4	82.1	5.0
MCH	pg	26.9	26.7	26.4	27.4	26.4	27.4	27.4	26.9	3.0
MCHC	g/dL	32.8	33.6	33.3	33.4	33.3	37.4	33.4	32.8	3.0
RDW-CV	%	14.5	13.0	13.0	13.0	13.0	20.0	13.0	14.5	3.5
PLT	x10 ⁹ /L	88	79	80	79	80	99	79	88	30
MPV	fL	8.1	10.8	10.8	10.5	10.8	9.5	10.5	8.1	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 04-2411 EXP: 2025-02-27										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	7.2	6.8	6.8	6.8	6.8	7.4	6.8	7.2	1.2
Lymph #	x10 ⁹ /L	3.2	2.8	2.8	2.8	2.8	2.5	2.8	3.2	1.5
Mid # (Mxd*)	x10 ⁹ /L	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.6	0.3
Gran #(Neut*)	x10 ⁹ /L	3.0	4.2	4.2	4.2	4.2	4.0	4.2	3.0	1.2
Lymph %	%	48.0	46.0	46.0	46.0	46.0	38.0	46.0	48.0	10
Mid (Mxd*)	%	8.0	8.0	8.0	8.0	8.0	8	8.0	8.0	5.0
Gran (Neut*)	%	44.0	46.0	46.0	46.0	46.0	54.0	46.0	44.0	10
RBC	x10 ¹² /L	4.39	4.32	4.28	4.28	4.28	4.46	4.28	4.39	0.25
Hgb	g/dL	13.1	13.4	13.1	13.3	13.1	12.7	13.3	13.1	0.6
Hct	%	39.2	37.3	36.3	36.8	36.3	36.5	36.8	39.2	3.0
MCV	fL	89.3	85.4	82.5	85.5	82.5	81.8	85.5	89.3	6.0
MCH	pg	29.8	31.0	30.6	31.1	30.6	28.4	31.1	29.8	3.0
MCHC	g/dL	33.4	35.9	36.1	36.1	36.1	34.8	36.1	33.4	3.0
RDW-CV	%	15.2	13.0	13.0	13.0	13.0	15.2	13.0	15.2	3.5
PLT	x10 ⁹ /L	215	215	210	215	210	250	215	215	50
MPV	fL	8.1	10.1	10.1	10.1	10.1	8.5	10.1	8.1	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 04-2411 EXP: 2025-02-27										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	21.6	20.2	19.7	19.8	19.7	19.5	19.8	21.6	2.0
Lymph #	x10 ⁹ /L	16.0	17.0	17.0	17.0	17.0	16.0	17.0	16.0	1.5
Mid # (Mxd*)	x10 ⁹ /L	Na	Na	Na	Na	Na	Na	Na	Na	1.0
Gran #(Neut*)	x10 ⁹ /L	Na	Na	Na	Na	Na	Na	Na	Na	5.5
Lymph %	%	76.0	88.0	88.0	88.0	88.0	76.0	88.0	76.0	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 ¹² /L	5.38	5.27	5.16	5.23	5.16	5.52	5.23	5.38	0.30
Hgb	g/dL	17.3	18.0	17.9	17.9	17.9	18.1	17.9	17.3	1.0
Hct	%	49.9	47.2	46.2	45.2	46.2	49.0	45.2	49.9	4.5
MCV	fL	92.7	88.7	87.7	88.7	87.7	88.3	88.7	92.7	6.0
MCH	pg	32.1	34.2	34.7	34.2	34.7	32.6	34.2	32.1	3.0
MCHC	g/dL	34.7	38.1	38.7	39.6	38.7	37.0	39.6	34.7	3.0
RDW-CV	%	16.0	14.1	14.1	14.1	14.1	14.5	14.1	16.0	3.5
PLT	x10 ⁹ /L	540	531	525	520	525	545	520	540	70
MPV	fL	8.5	9.2	9.2	9.2	9.2	8.0	9.2	8.5	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 04-2411 EXP: 2025-02-27										
Parameters										
WBC	x10 ⁹ /L	2.3	2.3	2.3	1.5	2.5	2.3	2.2	2.3	0.7
RBC	x10 ¹² /L	3.04	3.10	3.10	3.05	3.04	3.10	2.98	2.90	0.20
Hgb	g/dL	8.6	8.5	8.5	8.6	8.8	8.5	8.4	8.2	0.5
Hct	%	25.4	25.6	25.6	25.0	25.3	25.0	25.5	24.9	3.0
MCV	fL	83.5	82.5	82.5	81.9	83.2	80.6	85.5	83.7	5.0
MCH	pg	28.3	27.4	27.4	28.2	28.9	27.4	28.1	28.2	3.0
MCHC	g/dL	33.8	33.2	33.2	34.4	34.7	34.0	32.9	32.9	3.0
RDW-CV	%	15.5	14.9	14.9	15.0	14.0	14.0	14.8	16.5	3.5
PLT	x10 ⁹ /L	79	81	81	79	89	88	79	82	30
MPV	fL	10.9	10.7	10.7	10.8	7.9	9.0	11.1	11.1	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 04-2411 EXP: 2025-02-27										
Parameters										
WBC	x10 ⁹ /L	6.9	6.8	6.8	5.7	7.2	6.8	6.0	6.8	1.2
RBC	x10 ¹² /L	4.42	4.49	4.49	4.38	4.30	4.48	4.39	4.40	0.25
Hgb	g/dL	13.3	13.3	13.3	13.4	13.3	13.2	13.0	12.9	0.6
Hct	%	38.9	39.0	39.0	38.1	39.2	38.9	38.7	39.5	3.0
MCV	fL	88.0	86.8	86.8	86.9	91.1	86.8	88.2	89.8	6.0
MCH	pg	30.0	29.6	29.6	30.6	30.9	29.7	29.6	29.5	3.0
MCHC	g/dL	34.1	34.1	34.1	35.1	33.9	34.2	33.6	32.6	3.0
RDW-CV	%	16.0	15.5	15.5	15.5	14.5	15.0	15.5	15.7	5.0
PLT	x10 ⁹ /L	218	220	220	210	210	230	225	240	50
MPV	fL	10.1	10.0	10.0	10.5	8.0	9.0	10.5	10.5	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 04-2411 EXP: 2025-02-27										
Parameters										
WBC	x10 ⁹ /L	18.9	18.9	18.9	13.6	20.5	18.6	18.2	18.2	2.0
RBC	x10 ¹² /L	5.50	5.52	5.52	5.44	5.39	5.55	5.30	5.22	0.35
Hgb	g/dL	17.8	17.7	17.7	17.7	17.6	17.5	17.2	17.0	1.0
Hct	%	49.9	49.2	49.2	49.3	51.9	50.4	50.5	49.7	5.5
MCV	fL	90.7	89.1	89.1	90.6	96.3	90.8	95.3	95.2	7.0
MCH	pg	32.3	32.0	32.0	32.5	32.6	31.5	32.4	32.5	3.0
MCHC	g/dL	35.7	36.0	36.0	35.9	33.9	34.7	34.0	34.2	3.0
RDW-CV	%	18.0	18.2	18.2	17.8	15.6	16.0	17.0	17.0	3.5
PLT	x10 ⁹ /L	580	570	570	570	540	595	580	685	75
MPV	fL	10.8	10.7	10.7	10.8	9.0	10.0	11.0	11.0	3.0

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

CONTROL		PENTRA 60, 60C,120 80, 80XL	DYMIND	Zybio	ORPHEE MYTHIC22 22AL	ORPHEE MYTHIC60	NihonKohden CELLTAC E,ES CELLTAC F	Nihon Kohden CELLTAC G	± Range
LOT 04-2411 EXP: 2025-02-27									
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	2.4	2.6	2.3	1.1	1.6	2.5	2.6	0.8
RBC	x10 ¹² /L	3.10	3.04	3.0	2.93	3.10	3.08	2.91	0.20
Hgb	g/dL	8.2	8.7	8.5	8.5	8.8	8.5	8.0	0.5
Hct	%	24.9	25.2	24.8	24.2	25.3	26.2	25.9	3.0
MCV	fL	80.3	82.9	82.6	82.6	81.6	85.0	89.0	5.0
MCH	pg	26.4	28.6	28.3	29.0	28.3	27.5	27.4	3.0
MCHC	g/dL	32.9	34.5	34.2	35.1	34.7	32.4	30.8	3.0
RDW-CV	%	14.7	14.9	14.5	13.9	13.4	15.0	12.5	3.5
PLT	x10 ⁹ /L	78	82	75	82	85	85	82	30
MPV	fL	10.4	9.3	10.5	12.0	12.2	8.0	7.9	2.0
NORMAL CONTROL		PENTRA 60, 60C,120 80, 80XL	DYMIND	Zybio	ORPHEE MYTHIC22 22AL	ORPHEE MYTHIC60	NihonKohden CELLTAC E,ES CELLTAC F	Nihon Kohden CELLTAC G	± Range
LOT 04-2411 EXP: 2025-02-27									
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	6.9	7.2	7.0	4.2	5.3	7.1	6.7	1.2
RBC	x10 ¹² /L	4.38	4.35	4.45	4.30	4.37	4.38	4.33	0.25
Hgb	g/dL	13.3	13.2	13.0	13.3	13.1	13.3	12.6	0.6
Hct	%	37.3	38.3	39.4	37.8	38.8	38.7	41.9	3.0
MCV	fL	85.1	88.0	88.5	87.9	88.7	88.3	97.0	6.0
MCH	pg	30.3	30.3	29.2	30.9	29.9	30.3	29.1	3.0
MCHC	g/dL	35.6	34.4	33.0	35.1	33.7	34.3	30.0	3.0
RDW-CV	%	13.8	15.1	15.0	14.5	15.0	15.8	14.1	5.0
PLT	x10 ⁹ /L	218	230	225	222	245	235	215	50
MPV	fL	10.0	9.1	10.5	11.5	10.2	8.5	7.9	3.0
HIGH CONTROL		PENTRA 60, 60C,120 80, 80XL	DYMIND	Zybio	ORPHEE MYTHIC22 22AL	ORPHEE MYTHIC60	NihonKohden CELLTAC E,ES CELLTAC F	Nihon Kohden CELLTAC G	± Range
LOT 04-2411 EXP: 2025-02-27									
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	19.6	21.9	20.1	7.0	9.0	20.0	21.5	2.0
RBC	x10 ¹² /L	5.45	5.44	5.35	5.25	5.35	5.32	5.40	0.30
Hgb	g/dL	17.8	17.3	17.6	17.3	17.7	17.7	17.7	1.0
Hct	%	47.6	49.8	49.5	48.0	51.0	50.1	55.5	5.0
MCV	fL	87.3	91.5	92.5	91.4	95.3	94.1	102.7	7.0
MCH	pg	32.6	31.8	32.9	32.9	33.0	33.2	32.7	3.0
MCHC	g/dL	37.4	34.7	36.1	36.0	34.7	35.3	31.9	3.0
RDW-CV	%	14.8	15.9	16.5	16.2	17.0	17.5	16.1	3.5
PLT	x10 ⁹ /L	535	595	520	540	595	580	580	75
MPV	fL	10.7	10.0	11.2	11.7	13.0	10.0	8.5	3.0

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

LABXCO

LOT 04-2411 2025-02-27

14 Days open vial

CONTROL		DANAM DATACELL 16/18	BACKER 9110PLUS	
LOT 04-2411 EXP: 2025-02-27				
Parameters		Mean	Mean	± Range
WBC	x10 ⁹ /L	2.6	2.9	0.8
RBC	x10 ¹² /L	3.06	3.10	0.20
Hgb	g/dL	8.3	8.3	0.5
Hct	%	24.1	24.7	3.0
MCV	fL	81.4	81.4	5.0
MCH	pg	27.1	26.7	3.0
MCHC	g/dL	34.4	33.6	3.0
RDW-CV	%	13.0	13.0	3.5
PLT	x10 ⁹ /L	79	79	30
MPV	fL	10.9	10.8	2.0
NORMAL CONTROL		DANAM DATACELL 16/18	BACKER 9110PLUS	
LOT 04-2411 EXP: 2025-02-27				
Parameters		Mean	Mean	± Range
WBC	x10 ⁹ /L	6.8	6.8	1.2
RBC	x10 ¹² /L	4.32	4.32	0.25
Hgb	g/dL	13.2	13.4	0.6
Hct	%	36.8	37.3	3.0
MCV	fL	84.0	85.4	6.0
MCH	pg	30.6	31.0	3.0
MCHC	g/dL	35.9	35.9	3.0
RDW-CV	%	13.0	13.0	5.0
PLT	x10 ⁹ /L	210	215	50
MPV	fL	10.1	10.1	3.0
HIGH CONTROL		DANAM DATACELL 16/18	BACKER 9110PLUS	
LOT 04-2411 EXP: 2025-02-27				
Parameters		Mean	Mean	± Range
WBC	x10 ⁹ /L	19.2	20.2	2.0
RBC	x10 ¹² /L	5.22	5.27	0.30
Hgb	g/dL	17.9	18.0	1.0
Hct	%	46.5	47.2	5.0
MCV	fL	87.7	88.7	7.0
MCH	pg	34.3	34.2	3.0
MCHC	g/dL	38.5	38.1	3.0
RDW-CV	%	14.1	14.1	3.5
PLT	x10 ⁹ /L	525	531	75
MPV	fL	9.2	9.2	3.0