

Boule 3PD Hematology Control

CONTROL

IVD

LOT



CONT

4.5 mL



Tri-Level	32606-5K	2026/10/31
Low	32606-51	2026/10/31
Normal	32606-52	2026/11/04
High	32606-53	2026/11/06

Open Vial Stability: 14 days

LOW CONTROL		Sysmex KX Series	Mindray 3000 Series	ABX Micros 45/60	Orphee Mythic 18	ERMA PCE-210	Diatron Abacus Jr.	Nihon Kohden MEK 6400/6410/6420	
Lot 32606-51									
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	3.1	3.2	3.3	3.3	3.2	3.1	3.2	0.3
Lymph #	x10 ⁹ /L	1.3	1.3	1.5	1.4	1.3	1.3	1.5	0.5
Mid # (Mxd*)	x10 ⁹ /L	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Gran # (Neut*)	x10 ⁹ /L	1.6	1.7	1.6	1.7	1.8	1.7	1.5	0.8
Lymph	%	42.1	40.0	46.4	43.6	40.4	42.0	47.5	5.0
Mid (Mxd*)	%	6.2	6.7	5.9	4.0	4.0	4.1	4.5	4.0
Gran (Neut*)	%	51.7	53.3	47.7	52.4	55.6	53.9	48.0	5.0
RBC	x10 ¹² /L	2.24	2.32	2.29	2.25	2.36	2.37	2.35	0.12
Hgb	g/dL	5.0	5.6	5.7	5.5	5.8	5.9	5.8	0.3
Hct	%	14.9	16.7	16.2	16.5	17.8	17.5	17.0	3.0
MCV	fL	66.3	71.9	70.6	73.4	75.3	73.9	72.5	7.0
MCH	pg	22.3	24.1	24.9	24.4	24.6	24.9	24.7	2.0
MCHC	g/dL	33.6	33.5	35.2	33.3	32.6	33.7	34.1	4.0
RDW-CV	%	14.5	15.4	16.5	17.1	17.3	17.4	18.7	4.5
RDW-SD	fL	38.2	na	na	na	na	na	na	5.7
PLT	x10 ⁹ /L	76	94	94	88	93	72	97	15
MPV	fL	9.2	10.3	10.8	11.1	10.7	9.7	11.1	1.5
NORMAL CONTROL		Sysmex KX Series	Mindray 3000 Series	ABX Micros 45/60	Orphee Mythic 18	ERMA PCE-210	Diatron Abacus Jr.	Nihon Kohden MEK 6400/6410/6420	
Lot 32606-52									
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	8.4	8.5	8.5	8.6	8.9	8.3	8.6	0.6
Lymph #	x10 ⁹ /L	3.7	3.5	3.9	3.7	3.5	3.5	4.0	0.6
Mid # (Mxd*)	x10 ⁹ /L	0.8	0.8	0.5	0.5	0.5	0.6	0.5	0.5
Gran # (Neut*)	x10 ⁹ /L	3.9	4.3	4.0	4.5	5.0	4.2	4.3	1.0
Lymph	%	44.3	40.6	46.3	43.3	39.0	42.7	46.2	5.0
Mid (Mxd*)	%	9.1	9.2	6.3	5.0	5.2	6.8	4.0	4.0
Gran (Neut*)	%	46.6	50.2	47.4	51.7	55.8	50.5	49.8	5.0
RBC	x10 ¹² /L	4.19	4.35	4.27	4.18	4.28	4.28	4.31	0.18
Hgb	g/dL	12.5	12.5	12.6	12.5	12.7	12.4	12.9	0.4
Hct	%	33.4	38.5	36.9	37.7	39.7	39.2	37.6	3.5
MCV	fL	79.8	88.6	86.3	90.1	92.7	91.5	87.3	7.0
MCH	pg	29.8	28.7	29.5	29.9	29.7	29.0	29.9	2.0
MCHC	g/dL	37.4	32.5	34.1	33.2	32.0	31.6	34.3	4.0
RDW-CV	%	10.4	11.7	12.4	12.3	12.8	14.4	15.2	4.5
RDW-SD	fL	32.6	na	na	na	na	na	na	5.2
PLT	x10 ⁹ /L	235	256	261	230	244	250	292	30
MPV	fL	9.1	9.7	10.2	10.9	9.9	9.4	10.9	1.5
HIGH CONTROL		Sysmex KX Series	Mindray 3000 Series	ABX Micros 45/60	Orphee Mythic 18	ERMA PCE-210	Diatron Abacus Jr.	Nihon Kohden MEK 6400/6410/6420	
Lot 32606-53									
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	20.0	19.6	20.0	20.2	19.6	19.8	21.1	1.8
Lymph #	x10 ⁹ /L	11.7	10.5	11.8	11.5	10.1	11.5	13.7	1.5
Mid # (Mxd*)	x10 ⁹ /L	1.9	2.3	1.5	1.2	1.2	1.5	1.5	1.0
Gran # (Neut*)	x10 ⁹ /L	6.4	7.0	6.7	7.5	8.2	6.8	6.0	2.5
Lymph	%	58.5	52.6	59.1	56.6	51.7	58.1	64.8	5.0
Mid (Mxd*)	%	9.4	11.6	7.5	6.1	6.3	7.8	7.0	4.0
Gran (Neut*)	%	32.1	35.8	33.4	37.3	42.0	34.1	28.2	5.0
RBC	x10 ¹² /L	4.90	5.17	4.98	4.90	4.88	4.85	5.02	0.22
Hgb	g/dL	16.4	16.2	16.2	16.0	16.2	15.7	16.8	0.5
Hct	%	42.9	50.2	47.5	48.3	48.9	48.2	47.5	4.0
MCV	fL	87.5	97.1	95.3	98.5	100.2	99.3	94.6	7.0
MCH	pg	33.5	31.3	32.5	32.7	33.2	32.4	33.5	2.0
MCHC	g/dL	38.2	32.3	34.1	33.1	33.1	32.6	35.4	4.0
RDW-CV	%	11.9	12.1	12.4	12.3	13.4	14.0	15.3	4.5
RDW-SD	fL	38.7	na	na	na	na	na	na	4.8
PLT	x10 ⁹ /L	526	563	570	507	475	562	646	60
MPV	fL	9.4	10.0	10.5	11.0	10.8	9.4	11.2	1.5



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4.5 mL



Tri-Level	32606-5K	2026/10/31
Low	32606-51	2026/10/31
Normal	32606-52	2026/11/04
High	32606-53	2026/11/06

Open Vial Stability: 14 days

LOW CONTROL		Beckman Coulter Series								
		S-Plus Series	JT Series	STKR STKS™	MAXM™	MD Series	OnyX	AcT Diff	AcT 10 T Series	
Lot 32606-51										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	0.3
Lymph #	x10 ⁹ /L	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	0.5
Mono #	x10 ⁹ /L	0.3	0.3	0.3	0.3	0.3	0.3	0.3	na	0.3
Gran #	x10 ⁹ /L	1.7	1.7	1.7	1.7	1.7	1.7	1.7	na	0.8
Lymph	%	43.7	43.7	43.7	43.7	43.7	43.7	43.7	37.1	5.0
Mono	%	4.0	4.0	4.0	4.0	4.0	4.0	4.0	na	4.0
Gran	%	52.3	52.3	52.3	52.3	52.3	52.3	52.3	na	5.0
RBC	x10 ¹² /L	2.25	2.25	2.25	2.25	2.29	2.29	2.29	2.29	0.12
Hgb	g/dL	5.5	5.5	5.5	5.5	5.6	5.6	5.6	5.6	0.3
Hct	%	15.7	15.7	15.7	15.7	16.5	16.5	16.5	16.5	3.0
MCV	fL	69.6	69.6	69.6	69.6	72.2	72.2	72.2	72.2	7.0
MCH	pg	24.4	24.4	24.4	24.4	24.5	24.5	24.5	24.5	2.0
MCHC	g/dL	35.0	35.0	35.0	35.0	33.9	33.9	33.9	33.9	4.0
RDW	%	20.2	20.2	20.2	20.2	17.7	17.7	17.7	na	4.5
PLT	x10 ⁹ /L	77	77	77	77	74	74	74	74	15
MPV	fL	11.1	11.1	11.1	11.1	11.1	11.1	11.1	11.1	1.5
NORMAL CONTROL		S-Plus Series	JT Series	STKR STKS™	MAXM™	MD Series	OnyX	AcT Diff	AcT 10 T Series	
Lot 32606-52										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	8.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	0.6
Lymph #	x10 ⁹ /L	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.2	0.6
Mono #	x10 ⁹ /L	0.6	0.6	0.6	0.6	0.6	0.6	0.6	na	0.5
Gran #	x10 ⁹ /L	4.2	4.2	4.2	4.2	4.2	4.2	4.2	na	1.0
Lymph	%	44.3	44.3	44.3	44.3	44.3	44.3	44.3	37.7	5.0
Mono	%	6.5	6.5	6.5	6.5	6.5	6.5	6.5	na	4.0
Gran	%	49.2	49.2	49.2	49.2	49.2	49.2	49.2	na	5.0
RBC	x10 ¹² /L	4.21	4.21	4.21	4.21	4.27	4.27	4.27	4.27	0.18
Hgb	g/dL	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	0.4
Hct	%	36.0	36.0	36.0	36.0	37.1	37.1	37.1	37.1	3.5
MCV	fL	85.4	85.4	85.4	85.4	86.9	86.9	86.9	86.9	7.0
MCH	pg	29.7	29.7	29.7	29.7	29.3	29.3	29.3	29.3	2.0
MCHC	g/dL	34.7	34.7	34.7	34.7	33.7	33.7	33.7	33.7	4.0
RDW	%	14.3	14.3	14.3	14.3	13.3	13.3	13.3	na	4.5
PLT	x10 ⁹ /L	223	223	223	223	230	230	230	230	30
MPV	fL	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	1.5
HIGH CONTROL		S-Plus Series	JT Series	STKR STKS™	MAXM™	MD Series	OnyX	AcT Diff	AcT 10 T Series	
Lot 32606-53										
Parameters		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	20.2	20.2	20.2	20.2	20.3	20.3	20.3	20.3	1.8
Lymph #	x10 ⁹ /L	11.8	11.8	11.8	11.8	11.8	11.8	11.8	10.0	1.5
Mono #	x10 ⁹ /L	1.5	1.5	1.5	1.5	1.5	1.5	1.5	na	1.0
Gran #	x10 ⁹ /L	6.9	6.9	6.9	6.9	7.0	7.0	7.0	na	2.5
Lymph	%	58.3	58.3	58.3	58.3	58.3	58.3	58.3	49.6	5.0
Mono	%	7.3	7.3	7.3	7.3	7.3	7.3	7.3	na	4.0
Gran	%	34.4	34.4	34.4	34.4	34.4	34.4	34.4	na	5.0
RBC	x10 ¹² /L	4.93	4.93	4.93	4.93	4.98	4.98	4.98	4.98	0.22
Hgb	g/dL	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	0.5
Hct	%	46.1	46.1	46.1	46.1	47.1	47.1	47.1	47.1	4.0
MCV	fL	93.5	93.5	93.5	93.5	94.5	94.5	94.5	94.5	7.0
MCH	pg	32.5	32.5	32.5	32.5	32.1	32.1	32.1	32.1	2.0
MCHC	g/dL	34.7	34.7	34.7	34.7	34.0	34.0	34.0	34.0	4.0
RDW	%	14.1	14.1	14.1	14.1	13.3	13.3	13.3	na	4.5
PLT	x10 ⁹ /L	494	494	494	494	502	502	502	502	60
MPV	fL	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	1.5

STKS*, MAXM* (CBC parameters only)



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4.5 mL

Tri-Level	32606-5K	2026/10/31
Low	32606-51	2026/10/31
Normal	32606-52	2026/11/04
High	32606-53	2026/11/06



Open Vial Stability: 14 days

LOW CONTROL		Abbott CELL-DYN Series				
		1400	1600	1700	1800	
Lot 32606-51						
Parameters		Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	3.3	3.3	3.3	3.1	0.3
Lymph #	x10 ⁹ /L	1.3	1.3	1.4	1.2	0.5
Mid #	x10 ⁹ /L	na	0.3	0.3	0.3	0.3
Gran #	x10 ⁹ /L	2.0	1.9	1.7	1.6	0.8
Lymph	%	38.5	38.5	41.0	38.7	5.0
Mid	%	na	4.5	6.1	8.9	4.0
Gran	%	61.5	57.0	52.9	52.4	5.0
RBC	x10 ¹² /L	2.32	2.32	2.32	2.39	0.12
Hgb	g/dL	5.8	5.8	5.8	5.8	0.3
Hct	%	16.0	16.0	16.1	16.7	3.0
MCV	fL	69	69	69	70	7
MCH	pg	25.0	25.0	25.0	24.3	2.0
MCHC	g/dL	36.3	36.3	36.0	34.7	4.0
RDW	%	na	22.1	22.1	20.0	4.5
PLT	x10 ⁹ /L	78	78	78	74	15
NORMAL CONTROL		1400	1600	1700	1800	
Lot 32606-52						
Parameters		Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	8.6	8.6	8.6	8.2	0.6
Lymph #	x10 ⁹ /L	3.3	3.3	3.6	3.2	0.6
Mid #	x10 ⁹ /L	na	0.7	0.7	0.9	0.5
Gran #	x10 ⁹ /L	5.3	4.6	4.3	4.1	1.0
Lymph	%	38.4	38.4	41.6	39.3	5.0
Mid	%	na	8.3	8.4	11.2	4.0
Gran	%	61.6	53.3	50.0	49.5	5.0
RBC	x10 ¹² /L	4.28	4.28	4.28	4.28	0.18
Hgb	g/dL	12.5	12.5	12.5	12.6	0.4
Hct	%	36.4	36.4	36.4	36.8	3.5
MCV	fL	85	85	85	86	7
MCH	pg	29.2	29.2	29.2	29.4	2.0
MCHC	g/dL	34.3	34.3	34.3	34.2	4.0
RDW	%	na	16.2	16.2	14.4	4.5
PLT	x10 ⁹ /L	251	251	251	233	30
HIGH CONTROL		1400	1600	1700	1800	
Lot 32606-53						
Parameters		Mean	Mean	Mean	Mean	± Range
WBC	x10 ⁹ /L	20.0	20.0	20.0	19.4	1.8
Lymph #	x10 ⁹ /L	10.3	10.3	10.9	10.0	1.5
Mid #	x10 ⁹ /L	na	2.0	1.8	2.5	1.0
Gran #	x10 ⁹ /L	9.7	7.7	7.3	7.0	2.5
Lymph	%	51.6	51.6	54.8	51.3	5.0
Mid	%	na	9.8	8.9	12.7	4.0
Gran	%	48.4	38.6	36.3	36.0	5.0
RBC	x10 ¹² /L	4.93	4.93	4.93	4.92	0.22
Hgb	g/dL	16.1	16.1	16.1	16.1	0.5
Hct	%	45.8	45.8	45.8	46.2	4.0
MCV	fL	93	93	93	94	7
MCH	pg	32.7	32.7	32.7	32.7	2.0
MCHC	g/dL	35.2	35.2	35.2	34.8	4.0
RDW	%	na	15.9	15.9	16.5	4.5
PLT	x10 ⁹ /L	559	559	559	516	60

Note: Platelet/RBC - causing alarms, and WBC differential "R" flags should be disregarded for Abbott Series.

