BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT **BC2109B**

2021-11-10

		Low		Normal		High	
Instrument	**Parameter**	**LOT**	**BC2109BL**	**LOT**	**BC2109BN**	**LOT**	**BC2109BH**
BC-5800,BC-5600	WBC $\times10^9$/L	3.62	± 0.50	7.79	± 1.00	17.90	± 2.50
QC Mode	Neu# $\times10^9$/L	1.81	± 0.33	4.25	± 0.71	11.28	± 1.62
	Lym# $\times10^9$/L	1.38	± 0.33	2.30	± 0.63	3.35	± 1.44
	Mon# $\times10^9$/L	0.22	± 0.18	0.59	± 0.47	1.34	± 1.08
	Eos# $\times10^9$/L	0.17	± 0.15	0.58	± 0.47	1.75	± 1.43
	Bas# $\times10^9$/L	0.04	± 0.04	0.08	± 0.08	0.18	± 0.18
	Neu%	50.1	± 9.0	54.5	± 9.0	63.0	± 9.0
	Lym%	38.1	± 9.0	29.5	± 8.0	18.7	± 8.0
	Mon%	6.2	± 5.0	7.6	± 6.0	7.5	± 6.0
	Eos%	4.6	± 4.0	7.4	± 6.0	9.8	± 8.0
	Bas%	1.0	± 1.0	1.0	± 1.0	1.0	± 1.0
	RBC $\times10^{12}$/L	2.12	± 0.18	4.19	± 0.24	5.06	± 0.30
	HGB g/L	58	± 4	133	± 6	171	± 8
	HCT %	17.6	± 1.5	40.2	± 2.0	52.2	± 2.4
	MCV fL	83.1	± 5.0	95.9	± 5.0	103.2	± 5.0
	MCH pg	27.4	± 2.5	31.7	± 2.5	33.8	± 2.5
	MCHC g/L	329	± 30	331	± 30	327	± 30
	RDW-CV %	16.0	± 3.0	14.4	± 3.0	13.7	± 3.0
	RDW-SD fL	48.2	± 10.0	51.4	± 10.0	53.0	± 10.0
	PLT $\times10^9$/L	49	± 20	254	± 40	500	± 60
	MPV fL	9.3	± 3.0	10.5	± 3.0	10.1	± 3.0
	PCT %*	0.046	± 0.046	0.267	± 0.100	0.505	± 0.200
	PDW*	16.0	± 3.0	16.5	± 3.0	16.4	± 3.0
	P-LCC $\times10^9$/L	16	± 15	106	± 25	183	± 35
	P-LCR %	31.9	± 10.0	41.8	± 10.0	36.6	± 10.0
BC-5390	WBC $\times10^9$/L	3.30	± 0.50	7.55	± 1.00	17.10	± 2.50
QC Mode	Neu# $\times10^9$/L	1.75	± 0.30	4.27	± 0.68	10.94	± 1.54
	Lym# $\times10^9$/L	1.16	± 0.30	2.08	± 0.69	2.99	± 1.20
	Mon# $\times10^9$/L	0.23	± 0.20	0.57	± 0.46	1.20	± 1.03
	Eos# $\times10^9$/L	0.17	± 0.14	0.64	± 0.53	1.97	± 1.55
	Bas# $\times10^9$/L	0.79	± 0.33	2.06	± 0.76	5.30	± 1.71
	Neu%	53.0	± 9.0	56.5	± 9.0	64.0	± 9.0
	Lym%	35.0	± 9.0	27.5	± 9.0	17.5	± 7.0
	Mon%	7.0	± 6.0	7.5	± 6.0	7.0	± 6.0
	Eos%	5.0	± 4.0	8.5	± 7.0	11.5	± 9.0
	Bas%	24.0	± 10.0	27.3	± 10.0	31.0	± 10.0
	RBC $\times10^{12}$/L	2.03	± 0.18	4.15	± 0.24	5.04	± 0.30
	HGB g/L	52	± 4	123	± 6	158	± 8
	HCT %	16.5	± 1.5	38.8	± 2.0	50.7	± 2.4
	MCV fL	81.5	± 5.0	93.5	± 5.0	100.5	± 5.0
	MCH pg	25.6	± 2.5	29.6	± 2.5	31.3	± 2.5
	MCHC g/L	314	± 30	317	± 30	312	± 30
	RDW-CV %	15.5	± 3.0	14.0	± 3.0	13.5	± 3.0
	RDW-SD fL	49.0	± 8.0	50.0	± 8.0	50.5	± 8.0
	PLT $\times10^9$/L	49	± 20	252	± 40	493	± 60
	MPV fL	12.4	± 3.0	13.4	± 3.0	12.8	± 3.0

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT **BC2109B**

2021-11-10

		Low		Normal		High	++
Instrument	**Parameter**	LOT	**BC2109BL**	LOT	**BC2109BN**	LOT	**BC2109BH**
BC-5390 CRP	WBC $\times10^9$/L	3.41	± 0.50	7.51	± 1.00	17.22	± 2.50
QC Mode	Neu# $\times10^9$/L	1.80	± 0.31	4.23	± 0.68	11.07	± 1.55
	Lym# $\times10^9$/L	1.25	± 0.31	2.13	± 0.60	3.05	± 1.38
	Mon# $\times10^9$/L	0.18	± 0.17	0.50	± 0.45	1.15	± 1.03
	Eos# $\times10^9$/L	0.18	± 0.17	0.65	± 0.53	1.95	± 1.39
	Bas# $\times10^9$/L	0.87	± 0.35	2.07	± 0.76	5.36	± 1.73
	Neu%	52.7	± 9.0	56.3	± 9.0	64.3	± 9.0
	Lym%	36.8	± 9.0	28.4	± 8.0	17.7	± 8.0
	Mon%	5.3	± 5.0	6.7	± 6.0	6.7	± 6.0
	Eos%	5.2	± 5.0	8.6	± 7.0	11.3	± 8.0
	Bas%	25.5	± 10.0	27.5	± 10.0	31.1	± 10.0
	RBC $\times10^{12}$/L	2.07	± 0.18	4.16	± 0.24	5.08	± 0.30
	HGB g/L	53	± 4	122	± 6	157	± 8
	HCT %	16.8	± 1.5	39.1	± 2.0	51.4	± 2.4
	MCV fL	81.0	± 5.0	93.9	± 5.0	101.2	± 5.0
	MCH pg	25.6	± 2.5	29.3	± 2.5	30.9	± 2.5
	MCHC g/L	316	± 30	312	± 30	305	± 30
	RDW-CV %	16.3	± 3.0	14.9	± 3.0	14.4	± 3.0
	RDW-SD fL	46.1	± 8.0	49.2	± 8.0	51.0	± 8.0
	PLT $\times10^9$/L	45	± 20	252	± 40	511	± 60
	MPV fL	10.4	± 3.0	11.3	± 3.0	10.7	± 3.0
	PCT %*	0.047	± 0.047	0.285	± 0.100	0.547	± 0.200
	PDW*	15.6	± 3.0	16.5	± 3.0	16.6	± 3.0
	P-LCC $\times10^9$/L	13	± 13	91	± 25	161	± 35
	P-LCR %	28.6	± 10.0	36.3	± 10.0	31.6	± 10.0
BC-5300,BC-5100	WBC $\times10^9$/L	3.28	± 0.50	7.30	± 1.00	16.90	± 2.50
BC-5380,BC-5180	Neu# $\times10^9$/L	1.74	± 0.30	4.16	± 0.66	10.99	± 1.53
QC Mode	Lym# $\times10^9$/L	1.24	± 0.30	2.13	± 0.59	3.04	± 1.36
(Software version lower than 1.24.00.16860)	Mon# $\times10^9$/L	0.10	± 0.10	0.35	± 0.30	0.85	± 0.68
	Eos# $\times10^9$/L	0.20	± 0.17	0.66	± 0.52	2.03	± 1.53
	Bas# $\times10^9$/L	1.86	± 0.33	4.86	± 0.73	13.30	± 1.69
	Neu%	53.2	± 9.0	57.0	± 9.0	65.0	± 9.0
	Lym%	37.8	± 9.0	29.2	± 8.0	18.0	± 8.0
	Mon%	3.0	± 3.0	4.8	± 4.0	5.0	± 4.0
	Eos%	6.0	± 5.0	9.0	± 7.0	12.0	± 9.0
	Bas%	56.8	± 10.0	66.6	± 10.0	78.7	± 10.0
	RBC $\times10^{12}$/L	2.04	± 0.18	4.13	± 0.24	5.00	± 0.30
	HGB g/L	54	± 4	123	± 6	158	± 8
	HCT %	17.4	± 1.5	40.4	± 2.0	52.9	± 2.4
	MCV fL	85.5	± 5.0	97.8	± 5.0	105.8	± 5.0
	MCH pg	26.5	± 2.5	29.8	± 2.5	31.6	± 2.5
	MCHC g/L	310	± 30	305	± 30	299	± 30
	RDW-CV %	15.8	± 3.0	14.0	± 3.0	13.5	± 3.0
	RDW-SD fL	58.5	± 8.0	61.8	± 8.0	62.5	± 8.0
	PLT $\times10^9$/L	45	± 20	237	± 40	471	± 60
	MPV fL	10.0	± 3.0	10.7	± 3.0	10.2	± 3.0
	PCT %*	0.044	± 0.044	0.253	± 0.100	0.478	± 0.200
	PDW*	15.7	± 3.0	16.5	± 3.0	16.5	± 3.0

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT **BC2109B**

2021-11-10

		Low		Normal		High		+++
Instrument	**Parameter**	**LOT**	**BC2109BL**	**LOT**	**BC2109BN**	**LOT**	**BC2109BH**	
BC-5300,BC-5100	WBC ×10^9/L	3.29	± 0.50	7.42	± 1.00	16.89	± 2.50	
BC-5380,BC-5180	Neu# ×10^9/L	1.77	± 0.30	4.24	± 0.67	10.94	± 1.52	
QC Mode	Lym# ×10^9/L	1.21	± 0.30	2.12	± 0.60	3.04	± 1.36	
(Software version 1.24.00.16860 or higher)	Mon# ×10^9/L	0.11	± 0.10	0.37	± 0.30	0.84	± 0.68	
	Eos# ×10^9/L	0.20	± 0.17	0.68	± 0.52	2.06	± 1.52	
	Bas# ×10^9/L	1.88	± 0.33	4.99	± 0.75	13.34	± 1.69	
	Neu%	53.8	± 9.0	57.2	± 9.0	64.8	± 9.0	
	Lym%	36.8	± 9.0	28.6	± 8.0	18.0	± 8.0	
	Mon%	3.4	± 3.0	5.0	± 4.0	5.0	± 4.0	
	Eos%	6.0	± 5.0	9.2	± 7.0	12.2	± 9.0	
	Bas%	57.1	± 10.0	67.2	± 10.0	79.0	± 10.0	
	RBC ×10^{12}/L	2.04	± 0.18	4.12	± 0.24	4.96	± 0.30	
	HGB g/L	54	± 4	123	± 6	158	± 8	
	HCT %	17.0	± 1.5	39.7	± 2.0	51.5	± 2.4	
	MCV fL	83.2	± 5.0	96.3	± 5.0	103.8	± 5.0	
	MCH pg	26.5	± 2.5	29.9	± 2.5	31.9	± 2.5	
	MCHC g/L	318	± 30	310	± 30	307	± 30	
	RDW-CV %	15.9	± 3.0	14.5	± 3.0	14.0	± 3.0	
	RDW-SD fL	54.5	± 8.0	58.0	± 8.0	60.2	± 8.0	
	PLT ×10^9/L	45	± 20	243	± 40	481	± 60	
	MPV fL	9.6	± 3.0	10.7	± 3.0	10.1	± 3.0	
	PCT %*	0.043	± 0.043	0.260	± 0.100	0.486	± 0.200	
	PDW*	15.7	± 3.0	16.5	± 3.0	16.6	± 3.0	
BC-5000,BC-5150,BC-5120	WBC ×10^9/L	3.38	± 0.50	7.45	± 1.00	17.03	± 2.50	
BC-5130,BC-5140,BC-5000VET	Neu# ×10^9/L	1.68	± 0.41	4.01	± 0.90	10.47	± 2.05	
QC Mode	Lym# ×10^9/L	1.25	± 0.31	2.12	± 0.60	2.90	± 1.20	
	Mon# ×10^9/L	0.26	± 0.26	0.67	± 0.67	1.53	± 1.53	
	Eos# ×10^9/L	0.16	± 0.16	0.56	± 0.56	1.81	± 1.81	
	Bas# ×10^9/L	0.03	± 0.03	0.10	± 0.10	0.32	± 0.32	
	Neu%	49.8	± 12.0	53.8	± 12.0	61.5	± 12.0	
	Lym%	37.0	± 9.0	28.4	± 8.0	17.0	± 7.0	
	Mon%	7.6	± 7.6	9.0	± 9.0	9.0	± 9.0	
	Eos%	4.7	± 4.7	7.5	± 7.5	10.6	± 10.6	
	Bas%	0.9	± 0.9	1.3	± 1.3	1.9	± 1.9	
	RBC ×10^{12}/L	2.07	± 0.18	4.21	± 0.24	5.09	± 0.30	
	HGB g/L	54	± 4	126	± 6	163	± 8	
	HCT %	17.2	± 1.5	39.7	± 2.0	51.1	± 2.4	
	MCV fL	83.2	± 5.0	94.2	± 5.0	100.4	± 5.0	
	MCH pg	26.1	± 2.5	29.9	± 2.5	32.0	± 2.5	
	MCHC g/L	314	± 30	318	± 30	319	± 30	
	RDW-CV %	19.1	± 3.0	17.1	± 3.0	16.2	± 3.0	
	RDW-SD fL	57.7	± 8.0	59.0	± 8.0	59.3	± 8.0	
	PLT ×10^9/L	48	± 20	250	± 40	506	± 60	
	MPV fL	11.7	± 3.0	12.8	± 3.0	12.0	± 3.0	
	PCT %*	0.056	± 0.050	0.320	± 0.100	0.607	± 0.200	
	PDW*	15.3	± 3.0	16.5	± 3.0	16.8	± 3.0	
	P-LCC ×10^9/L**	19	± 15	114	± 25	196	± 35	
	P-LCR %**	39.3	± 10.0	45.7	± 10.0	38.8	± 10.0	

* For Research Use Only ** These parameters are not provided on BC-5000/BC-5000 Vet analyzers

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BC-5D

HEMATOLOGY CONTROLS

CONTROL

ASSAY VALUES AND EXPECTED RANGES

LOT **BC2109B**

2021-11-10

		Low		Normal		High		++++
Instrument	**Parameter**	**LOT**	**BC2109BL**	**LOT**	**BC2109BN**	**LOT**	**BC2109BH**	
BC-5300Vet,BC-5100Vet	WBC $\times10^9$/L	3.25	± 0.50	7.35	± 1.00	17.10	± 2.50	
QC Mode	Neu# $\times10^9$/L	1.72	± 0.30	4.23	± 0.67	11.12	± 1.54	
	Lym# $\times10^9$/L	1.24	± 0.30	2.13	± 0.59	3.08	± 1.37	
	Mon# $\times10^9$/L	0.10	± 0.10	0.33	± 0.30	0.86	± 0.69	
	Eos# $\times10^9$/L	0.20	± 0.17	0.66	± 0.52	2.05	± 1.54	
	Neu%	53.0	± 9.0	57.5	± 9.0	65.0	± 9.0	
	Lym%	38.0	± 9.0	29.0	± 8.0	18.0	± 8.0	
	Mon%	3.0	± 3.0	4.5	± 4.0	5.0	± 4.0	
	Eos%	6.0	± 5.0	9.0	± 7.0	12.0	± 9.0	
	RBC $\times10^{12}$/L	2.02	± 0.18	4.12	± 0.24	4.99	± 0.30	
	HGB g/L	53	± 4	122	± 6	158	± 8	
	HCT %	17.4	± 1.5	40.4	± 2.0	52.9	± 2.4	
	MCV fL	86.0	± 5.0	98.0	± 5.0	106.0	± 5.0	
	MCH pg	26.2	± 2.5	29.6	± 2.5	31.7	± 2.5	
	MCHC g/L	305	± 30	302	± 30	299	± 30	
	RDW-CV %	16.0	± 3.0	14.0	± 3.0	13.5	± 3.0	
	RDW-SD fL	59.0	± 8.0	62.0	± 8.0	63.0	± 8.0	
	PLT $\times10^9$/L	44	± 20	234	± 40	469	± 60	
	MPV fL	10.6	± 3.0	11.4	± 3.0	10.8	± 3.0	
	PCT %*	0.046	± 0.046	0.265	± 0.100	0.505	± 0.200	
	PDW*	15.6	± 3.0	16.5	± 3.0	16.5	± 3.0	

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