


BC-3D
HEMATOLOGY CONTROLS

CONTROL

Revised 2024-07-08

ASSAY VALUES AND EXPECTED RANGES

LOT B0824
 2024-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0824L		LOT B0824N		LOT B0824H	
		The U.S. Units	The International Units	The U.S. Units	The International Units	The U.S. Units	The International Units
BC-3600 CD version 1.8(FDA) or greater	WBC	1.9 ± 0.5 × 10 ⁹ /μL	1.9 ± 0.5 × 10 ⁹ /L	7.9 ± 1.0 × 10 ⁹ /μL	7.9 ± 1.0 × 10 ⁹ /L	20.5 ± 2.5 × 10 ⁹ /μL	20.5 ± 2.5 × 10 ⁹ /L
	RBC	2.20 ± 0.18 × 10 ⁶ /μL	2.20 ± 0.18 × 10 ¹² /L	4.67 ± 0.24 × 10 ⁶ /μL	4.67 ± 0.24 × 10 ¹² /L	5.73 ± 0.30 × 10 ⁶ /μL	5.73 ± 0.30 × 10 ¹² /L
	HGB	5.8 ± 0.4 g/dL	58 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	19.0 ± 0.8 g/dL	190 ± 8 g/L
	HCT	17.4 ± 1.5 %	17.4 ± 1.5 %	40.6 ± 2.0 %	40.6 ± 2.0 %	54.1 ± 2.4 %	54.1 ± 2.4 %
	MCV	79.0 ± 5.0 fL	79.0 ± 5.0 fL	87.0 ± 5.0 fL	87.0 ± 5.0 fL	94.5 ± 5.0 fL	94.5 ± 5.0 fL
	MCH	26.4 ± 2.5 pg	26.4 ± 2.5 pg	29.8 ± 2.5 pg	29.8 ± 2.5 pg	33.2 ± 2.5 pg	33.2 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	34.2 ± 3.0 g/dL	342 ± 30 g/L	35.1 ± 3.0 g/dL	351 ± 30 g/L
	RDW	15.0 ± 3.0 %	15.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %	14.0 ± 3.0 %
	PLT	62 ± 20 × 10 ³ /μL	62 ± 20 × 10 ⁹ /L	245 ± 40 × 10 ³ /μL	245 ± 40 × 10 ⁹ /L	514 ± 60 × 10 ³ /μL	514 ± 60 × 10 ⁹ /L
	MPV	7.4 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL
	Lymph	59.5 ± 9.0 %	59.5 ± 9.0 %	28.5 ± 8.0 %	28.5 ± 8.0 %	13.5 ± 8.0 %	13.5 ± 8.0 %
	Mid	9.5 ± 8.0 %	9.5 ± 8.0 %	7.5 ± 6.0 %	7.5 ± 6.0 %	5.5 ± 4.0 %	5.5 ± 4.0 %
	Gran	31.0 ± 9.0 %	31.0 ± 9.0 %	64.0 ± 8.0 %	64.0 ± 8.0 %	81.0 ± 9.0 %	81.0 ± 9.0 %
	Lymph#	1.1 ± 0.2 × 10 ³ /μL	1.1 ± 0.2 × 10 ⁹ /L	2.3 ± 0.7 × 10 ³ /μL	2.3 ± 0.7 × 10 ⁹ /L	2.8 ± 1.7 × 10 ³ /μL	2.8 ± 1.7 × 10 ⁹ /L
	Mid#	0.2 ± 0.2 × 10 ³ /μL	0.2 ± 0.2 × 10 ⁹ /L	0.6 ± 0.5 × 10 ³ /μL	0.6 ± 0.5 × 10 ⁹ /L	1.1 ± 0.8 × 10 ³ /μL	1.1 ± 0.8 × 10 ⁹ /L
	Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	5.1 ± 0.7 × 10 ³ /μL	5.1 ± 0.7 × 10 ⁹ /L	16.6 ± 1.9 × 10 ³ /μL	16.6 ± 1.9 × 10 ⁹ /L
BC-3600 CD version lower than 1.8 and/or manufacture date before March of 2015	WBC	2.0 ± 0.5 × 10 ⁹ /μL	2.0 ± 0.5 × 10 ⁹ /L	8.1 ± 1.0 × 10 ⁹ /μL	8.1 ± 1.0 × 10 ⁹ /L	21.3 ± 2.5 × 10 ⁹ /μL	21.3 ± 2.5 × 10 ⁹ /L
	RBC	2.28 ± 0.18 × 10 ⁶ /μL	2.28 ± 0.18 × 10 ¹² /L	4.80 ± 0.24 × 10 ⁶ /μL	4.80 ± 0.24 × 10 ¹² /L	5.87 ± 0.30 × 10 ⁶ /μL	5.87 ± 0.30 × 10 ¹² /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	18.9 ± 0.8 g/dL	189 ± 8 g/L
	HCT	17.9 ± 1.5 %	17.9 ± 1.5 %	41.3 ± 2.0 %	41.3 ± 2.0 %	55.1 ± 2.4 %	55.1 ± 2.4 %
	MCV	78.7 ± 5.0 fL	78.7 ± 5.0 fL	86.0 ± 5.0 fL	86.0 ± 5.0 fL	93.8 ± 5.0 fL	93.8 ± 5.0 fL
	MCH	26.3 ± 2.5 pg	26.3 ± 2.5 pg	29.0 ± 2.5 pg	29.0 ± 2.5 pg	32.2 ± 2.5 pg	32.2 ± 2.5 pg
	MCHC	33.4 ± 3.0 g/dL	334 ± 30 g/L	33.7 ± 3.0 g/dL	337 ± 30 g/L	34.3 ± 3.0 g/dL	343 ± 30 g/L
	RDW-CV	16.9 ± 3.0 %	16.9 ± 3.0 %	15.0 ± 3.0 %	15.0 ± 3.0 %	14.6 ± 3.0 %	14.6 ± 3.0 %
	RDW-SD	38.5 ± 8.0 fL	38.5 ± 8.0 fL	41.3 ± 8.0 fL	41.3 ± 8.0 fL	45.2 ± 8.0 fL	45.2 ± 8.0 fL
	PLT	65 ± 20 × 10 ³ /μL	65 ± 20 × 10 ⁹ /L	247 ± 40 × 10 ³ /μL	247 ± 40 × 10 ⁹ /L	511 ± 60 × 10 ³ /μL	511 ± 60 × 10 ⁹ /L
	MPV	9.0 ± 3.0 fL	9.0 ± 3.0 fL	8.7 ± 3.0 fL	8.7 ± 3.0 fL	8.6 ± 3.0 fL	8.6 ± 3.0 fL
	*PCT	0.059 ± 0.050 %	0.059 ± 0.050 %	0.215 ± 0.100 %	0.215 ± 0.100 %	0.439 ± 0.200 %	0.439 ± 0.200 %
	*PDW	15.3 ± 3.0	15.3 ± 3.0	15.6 ± 3.0	15.6 ± 3.0	16.0 ± 3.0	16.0 ± 3.0
	*P-LCC	20 ± 10 × 10 ³ /μL	20 ± 10 × 10 ⁹ /L	68 ± 22 × 10 ³ /μL	68 ± 22 × 10 ⁹ /L	140 ± 30 × 10 ³ /μL	140 ± 30 × 10 ⁹ /L
	*P-LCR	30.3 ± 9.0 %	30.3 ± 9.0 %	27.6 ± 9.0 %	27.6 ± 9.0 %	27.3 ± 9.0 %	27.3 ± 9.0 %
	Lymph	59.5 ± 9.0 %	59.5 ± 9.0 %	29.5 ± 8.0 %	29.5 ± 8.0 %	13.7 ± 8.0 %	13.7 ± 8.0 %
THIS ANALYZER NOT APPROVED FOR USE IN THE US	Mid	11.5 ± 11.5 %	11.5 ± 11.5 %	8.6 ± 8.6 %	8.6 ± 8.6 %	6.9 ± 6.9 %	6.9 ± 6.9 %
	Gran	29.0 ± 10.0 %	29.0 ± 10.0 %	61.9 ± 8.0 %	61.9 ± 8.0 %	79.4 ± 9.0 %	79.4 ± 9.0 %
	Lymph#	1.2 ± 0.2 × 10 ³ /μL	1.2 ± 0.2 × 10 ⁹ /L	2.4 ± 0.7 × 10 ³ /μL	2.4 ± 0.7 × 10 ⁹ /L	2.9 ± 1.7 × 10 ³ /μL	2.9 ± 1.7 × 10 ⁹ /L
	Mid#	0.2 ± 0.2 × 10 ³ /μL	0.2 ± 0.2 × 10 ⁹ /L	0.7 ± 0.7 × 10 ³ /μL	0.7 ± 0.7 × 10 ⁹ /L	1.5 ± 1.5 × 10 ³ /μL	1.5 ± 1.5 × 10 ⁹ /L
	Gran#	0.6 ± 0.2 × 10 ³ /μL	0.6 ± 0.2 × 10 ⁹ /L	5.0 ± 0.7 × 10 ³ /μL	5.0 ± 0.7 × 10 ⁹ /L	16.9 ± 2.0 × 10 ³ /μL	16.9 ± 2.0 × 10 ⁹ /L

* For Research Use Only.
Before using, refer to the instruction sheet for mixing directions.

Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China
Tel: +86 755 26582479 26582888
Fax: +86 755 26582934 26582500


U.S.Headquarters:
Mindray North America
800 Macarthur Blvd., Mahwah, NJ 07430-0619,USA
Tel: (1-800) 288 2121

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ASSAY VALUES AND EXPECTED RANGES

LOT B0824
 2024-11-05

Instrument	Parameter	Low		Normal		High	
		LOT B0824L		LOT B0824N		LOT B0824H	
		The U.S. Units	The International Units	The U.S. Units	The International Units	The U.S. Units	The International Units
BC-3200	WBC	2.1 ± 0.5 × 10 ³ /μL	2.1 ± 0.5 × 10 ⁹ /L	8.4 ± 1.0 × 10 ³ /μL	8.4 ± 1.0 × 10 ⁹ /L	22.1 ± 2.5 × 10 ³ /μL	22.1 ± 2.5 × 10 ⁹ /L
	RBC	2.25 ± 0.18 × 10 ⁶ /μL	2.25 ± 0.18 × 10 ¹² /L	4.64 ± 0.24 × 10 ⁶ /μL	4.64 ± 0.24 × 10 ¹² /L	5.69 ± 0.30 × 10 ⁶ /μL	5.69 ± 0.30 × 10 ¹² /L
	HGB	6.0 ± 0.4 g/dL	60 ± 4 g/L	13.9 ± 0.6 g/dL	139 ± 6 g/L	18.8 ± 0.8 g/dL	188 ± 8 g/L
	HCT	17.9 ± 1.5 %	17.9 ± 1.5 %	40.8 ± 2.0 %	40.8 ± 2.0 %	55.1 ± 2.4 %	55.1 ± 2.4 %
	MCV	79.4 ± 5.0 fL	79.4 ± 5.0 fL	88.0 ± 5.0 fL	88.0 ± 5.0 fL	96.8 ± 5.0 fL	96.8 ± 5.0 fL
	MCH	26.7 ± 2.5 pg	26.7 ± 2.5 pg	30.0 ± 2.5 pg	30.0 ± 2.5 pg	33.0 ± 2.5 pg	33.0 ± 2.5 pg
	MCHC	33.6 ± 3.0 g/dL	336 ± 30 g/L	34.0 ± 3.0 g/dL	340 ± 30 g/L	34.1 ± 3.0 g/dL	341 ± 30 g/L
	*RDW	15.1 ± 3.0 %	15.1 ± 3.0 %	14.4 ± 3.0 %	14.4 ± 3.0 %	13.9 ± 3.0 %	13.9 ± 3.0 %
	PLT	76 ± 20 × 10 ³ /μL	76 ± 20 × 10 ⁹ /L	249 ± 40 × 10 ³ /μL	249 ± 40 × 10 ⁹ /L	495 ± 60 × 10 ³ /μL	495 ± 60 × 10 ⁹ /L
	*MPV	8.3 ± 3.0 fL	8.3 ± 3.0 fL	7.5 ± 3.0 fL	7.5 ± 3.0 fL	7.4 ± 3.0 fL	7.4 ± 3.0 fL
	Lymph	59.1 ± 12.0 %	59.1 ± 12.0 %	27.5 ± 8.0 %	27.5 ± 8.0 %	11.8 ± 7.0 %	11.8 ± 7.0 %
	*Mid	10.1 ± 10.0 %	10.1 ± 10.0 %	9.2 ± 8.0 %	9.2 ± 8.0 %	7.8 ± 4.0 %	7.8 ± 4.0 %
	Gran	30.8 ± 9.0 %	30.8 ± 9.0 %	63.3 ± 8.0 %	63.3 ± 8.0 %	80.4 ± 10.0 %	80.4 ± 10.0 %
	Lymph#	1.2 ± 0.3 × 10 ³ /μL	1.2 ± 0.3 × 10 ⁹ /L	2.3 ± 0.7 × 10 ³ /μL	2.3 ± 0.7 × 10 ⁹ /L	2.6 ± 1.6 × 10 ³ /μL	2.6 ± 1.6 × 10 ⁹ /L
	*Mid#	0.2 ± 0.2 × 10 ³ /μL	0.2 ± 0.2 × 10 ⁹ /L	0.8 ± 0.7 × 10 ³ /μL	0.8 ± 0.7 × 10 ⁹ /L	1.7 ± 0.9 × 10 ³ /μL	1.7 ± 0.9 × 10 ⁹ /L
	Gran#	0.7 ± 0.2 × 10 ³ /μL	0.7 ± 0.2 × 10 ⁹ /L	5.3 ± 0.7 × 10 ³ /μL	5.3 ± 0.7 × 10 ⁹ /L	17.8 ± 2.3 × 10 ³ /μL	17.8 ± 2.3 × 10 ⁹ /L

* For new software version 01.07.00 or greater.
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Shenzhen Mindray Bio-Medical Electronics Co., Ltd.
Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, ShenZhen 518057, P.R.China
Tel: +86 755 26582479 26582888
Fax: +86 755 26582934 26582500

U.S.Headquarters:
Mindray North America
800 Macarthur Blvd., Mahwah, NJ 07430-0619,USA
Tel: (1-800) 288 2121