





# BC-5D

## HEMATOLOGY CONTROLS

**CONTROL**

 **BC2501B**
 **2025-03-10**

## ASSAY VALUES AND EXPECTED RANGES

		Low  BC2501BL		Normal  BC2501BN		High  BC2501BH	
Instrument Parameter		The U.S. Units	The International Units	The U.S. Units	The International Units	The U.S. Units	The International Units
BC-5390	WBC	$3.20 \pm 0.50 \times 10^3/\mu\text{L}$	$3.20 \pm 0.50 \times 10^9/\text{L}$	$8.05 \pm 1.00 \times 10^3/\mu\text{L}$	$8.05 \pm 1.00 \times 10^9/\text{L}$	$17.10 \pm 2.50 \times 10^3/\mu\text{L}$	$17.10 \pm 2.50 \times 10^9/\text{L}$
QC Mode	Neu#	$1.68 \pm 0.29 \times 10^3/\mu\text{L}$	$1.68 \pm 0.29 \times 10^9/\text{L}$	$4.87 \pm 0.73 \times 10^3/\mu\text{L}$	$4.87 \pm 0.73 \times 10^9/\mu\text{L}$	$11.37 \pm 1.54 \times 10^3/\mu\text{L}$	$11.37 \pm 1.54 \times 10^9/\mu\text{L}$
	Lym#	$1.25 \pm 0.29 \times 10^3/\mu\text{L}$	$1.25 \pm 0.29 \times 10^9/\text{L}$	$2.17 \pm 0.73 \times 10^3/\mu\text{L}$	$2.17 \pm 0.73 \times 10^9/\mu\text{L}$	$2.99 \pm 1.37 \times 10^3/\mu\text{L}$	$2.99 \pm 1.37 \times 10^9/\mu\text{L}$
	Mon#	$0.11 \pm 0.10 \times 10^3/\mu\text{L}$	$0.11 \pm 0.10 \times 10^9/\text{L}$	$0.40 \pm 0.24 \times 10^3/\mu\text{L}$	$0.40 \pm 0.24 \times 10^9/\mu\text{L}$	$1.11 \pm 0.86 \times 10^3/\mu\text{L}$	$1.11 \pm 0.86 \times 10^9/\mu\text{L}$
	Eos#	$0.16 \pm 0.13 \times 10^3/\mu\text{L}$	$0.16 \pm 0.13 \times 10^9/\text{L}$	$0.60 \pm 0.48 \times 10^3/\mu\text{L}$	$0.60 \pm 0.48 \times 10^9/\mu\text{L}$	$1.62 \pm 1.37 \times 10^3/\mu\text{L}$	$1.62 \pm 1.37 \times 10^9/\mu\text{L}$
	Bas#	$0.83 \pm 0.32 \times 10^3/\mu\text{L}$	$0.83 \pm 0.32 \times 10^9/\text{L}$	$2.25 \pm 0.81 \times 10^3/\mu\text{L}$	$2.25 \pm 0.81 \times 10^9/\mu\text{L}$	$5.30 \pm 1.71 \times 10^3/\mu\text{L}$	$5.30 \pm 1.71 \times 10^9/\mu\text{L}$
	Neu%	$52.5 \pm 9.0 \%$	$52.5 \pm 9.0 \%$	$60.5 \pm 9.0 \%$	$60.5 \pm 9.0 \%$	$66.5 \pm 9.0 \%$	$66.5 \pm 9.0 \%$
	Lym%	$39.0 \pm 9.0 \%$	$39.0 \pm 9.0 \%$	$27.0 \pm 9.0 \%$	$27.0 \pm 9.0 \%$	$17.5 \pm 8.0 \%$	$17.5 \pm 8.0 \%$
	Mon%	$3.5 \pm 3.0 \%$	$3.5 \pm 3.0 \%$	$5.0 \pm 3.0 \%$	$5.0 \pm 3.0 \%$	$6.5 \pm 5.0 \%$	$6.5 \pm 5.0 \%$
	Eos%	$5.0 \pm 4.0 \%$	$5.0 \pm 4.0 \%$	$7.5 \pm 6.0 \%$	$7.5 \pm 6.0 \%$	$9.5 \pm 8.0 \%$	$9.5 \pm 8.0 \%$
	Bas%	$26.0 \pm 10.0 \%$	$26.0 \pm 10.0 \%$	$28.0 \pm 10.0 \%$	$28.0 \pm 10.0 \%$	$31.0 \pm 10.0 \%$	$31.0 \pm 10.0 \%$
	RBC	$2.11 \pm 0.18 \times 10^6/\mu\text{L}$	$2.11 \pm 0.18 \times 10^{12}/\text{L}$	$4.05 \pm 0.24 \times 10^6/\mu\text{L}$	$4.05 \pm 0.24 \times 10^{12}/\text{L}$	$4.91 \pm 0.30 \times 10^6/\mu\text{L}$	$4.91 \pm 0.30 \times 10^{12}/\text{L}$
	HGB	$5.3 \pm 0.4 \text{ g/dL}$	$53 \pm 4 \text{ g/L}$	$11.9 \pm 0.6 \text{ g/dL}$	$119 \pm 6 \text{ g/L}$	$15.6 \pm 0.8 \text{ g/dL}$	$156 \pm 8 \text{ g/L}$
	HCT	$17.0 \pm 1.5 \%$	$17.0 \pm 1.5 \%$	$37.5 \pm 2.0 \%$	$37.5 \pm 2.0 \%$	$49.8 \pm 2.4 \%$	$49.8 \pm 2.4 \%$
	MCV	$80.5 \pm 5.0 \text{ fL}$	$80.5 \pm 5.0 \text{ fL}$	$92.5 \pm 5.0 \text{ fL}$	$92.5 \pm 5.0 \text{ fL}$	$101.5 \pm 5.0 \text{ fL}$	$101.5 \pm 5.0 \text{ fL}$
	MCH	$25.1 \pm 2.5 \text{ pg}$	$25.1 \pm 2.5 \text{ pg}$	$29.4 \pm 2.5 \text{ pg}$	$29.4 \pm 2.5 \text{ pg}$	$31.8 \pm 2.5 \text{ pg}$	$31.8 \pm 2.5 \text{ pg}$
	MCHC	$31.2 \pm 3.0 \text{ g/dL}$	$312 \pm 30 \text{ g/L}$	$31.8 \pm 3.0 \text{ g/dL}$	$318 \pm 30 \text{ g/L}$	$31.3 \pm 3.0 \text{ g/dL}$	$313 \pm 30 \text{ g/L}$
	RDW-CV	$14.5 \pm 3.0 \%$	$14.5 \pm 3.0 \%$	$14.0 \pm 3.0 \%$	$14.0 \pm 3.0 \%$	$14.0 \pm 3.0 \%$	$14.0 \pm 3.0 \%$
	RDW-SD	$46.0 \pm 8.0 \text{ fL}$	$46.0 \pm 8.0 \text{ fL}$	$50.0 \pm 8.0 \text{ fL}$	$50.0 \pm 8.0 \text{ fL}$	$53.5 \pm 8.0 \text{ fL}$	$53.5 \pm 8.0 \text{ fL}$
	PLT	$49 \pm 20 \times 10^3/\mu\text{L}$	$49 \pm 20 \times 10^9/\text{L}$	$237 \pm 40 \times 10^3/\mu\text{L}$	$237 \pm 40 \times 10^9/\text{L}$	$478 \pm 60 \times 10^3/\mu\text{L}$	$478 \pm 60 \times 10^9/\text{L}$
	MPV	$10.2 \pm 3.0 \text{ fL}$	$10.2 \pm 3.0 \text{ fL}$	$10.5 \pm 3.0 \text{ fL}$	$10.5 \pm 3.0 \text{ fL}$	$10.6 \pm 3.0 \text{ fL}$	$10.6 \pm 3.0 \text{ fL}$

Before using, refer to the instruction sheet for mixing directions.

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