

## BC- 3200 Hematology Analyzer Quick Operation Guide



### Daily Startup Sequence

- Turn on Analyzer.
- Check if auto background passes.  
(WBC  $\leq$  0.3, RBC  $\leq$  0.03, HGB  $\leq$  0.1, PLT  $\leq$  10)
- Select sample mode: Whole Blood or Predilute

### Perform Quality Control Check

1. If new lot, enter new control values and ranges from the assay package insert.
2. Prepare controls in accordance to the control package insert. Allow controls to reach room temperature.
3. Select **QC → L-J Analysis → L-J Count → QC File**, select the QC file that corresponds to the control level you will run (QCFile1= L, QCFile2=N, QCFile3=H)
4. Mix the Low Control vial for 15-20 sec. Uncap vial and place in position No.1 and press the **Aspirate** button to analyze.
5. When sample compartment door opens remove control vial, clean the cap and rim of the vial using a lint-free paper tissue then place cap and return it to refrigerator.
6. Control results will be displayed within one minute. Press **Print** key to print control results and file control results.
7. Repeat the above instructions for Normal and High control levels.
8. When control results are acceptable, the daily startup sequence is complete.
9. Press **Main** key to go to Count Screen.

### Control Review / Analysis

Review control runs and statistical data

- Graphical display: select **QC → L-J Analysis → L-J Graph → QC File**
- Tabular display: select **QC → L-J Analysis → L-J Table → QC File**

### Patient Sample Run Whole Blood Mode

1. Select Sample Mode as Whole Blood, then press **Main** key to go to Count Screen.
2. Press **ID** key to enter patient ID only. If you want to enter additional patient demographics, refer to other settings and set to All Info.
3. Mix patient sample tube according to your laboratory's protocol. Uncap vial and place in position No.1 of sample tube holder, close sample compartment door and press the **Aspirate** button.
4. After 55 seconds results will be displayed.
5. Results will be printed if auto print option has been activated.

### Patient Sample Run Pre-Dilute Mode /Pediatric

1. Select Sample Mode as Predilute, then press **Main** key to go to Count Screen.
2. Press **ID** key to enter patient ID only. If you want to enter additional patient demographics, refer to other settings and set to All Info.
3. Press **Diluent** button, rotate sample tube holder to aspirate position No.4.
4. Place a clean 1.5 mL centrifugal tube uncapped in sample tube holder position No.4, close door, and press **Aspirate** button to dispense diluent.
5. Fill a 20  $\mu$ L. Micropipette completely with fresh sample whole blood.
6. Carefully wipe excess blood from outside surfaces of micropipette. Do not touch open ends of micropipette.
7. Take the 1.5 mL centrifugal tube out and place this 20 $\mu$ L micropipette with patient blood sample inside of tube previously filled with diluent.
8. Close the lid of the 1.5 mL tube, then mix tube until

all blood has been well mixed with diluent.

9. Leave sample stabilize for 1 minute.
10. Mix dilution for 10 - 15 seconds again, and then open the lid of the 1.5 mL tube and place in sample compartment position No.4.
11. Close Sample compartment door and press **Enter** key then the **Aspirate** button to analyze sample. Wait for patient results.

### Sample Review

- Tabular data display: select **Review** → **Sample Review** → **Sample Table Review**.
- Histogram and data display: select **Review** → **Sample Review** → **Sample Histogram Review**.

### End of Day

1. Open sample compartment door and clean the sample tube holder with an alcohol swab for blood stains and debris.
2. Press **Menu** key and select **Shutdown**.
  - Follow instructions on screen, fill a sample tube with **3 mL** of EZ Cleanser Solution and place tube in sample tube holder position No.1 and press **Aspirate**.
  - When cycle finishes turn off analyzer.

### Entering a New Lot of Controls

1. Select **Setup** → **Password**, enter administrator password.
2. Press **Menu** → **Quality Control** → **LJ Analysis LJ Edit** → Select **QC File 1– 9** and enter new lot control assay values. If QC Data exist, select an empty QC File 1-9, or delete all QC data to enter new values.
3. Press **Menu** and **Save** new assay values.

### Changing Reagents

The operating software will display a warning message to alert the operator when reagent has expired or need to be changed. When this occurs perform the following:

Press **Menu** → **Setup** → **Reagent Expiration Date**, enter the expiration date for the reagent being changed.

Prime with fresh reagents and check if auto background passes.

### End of Month QC Reports

1. Print QC table review for all QC levels.
2. Print QC L-J Graphs for all QC levels.

### Calibration

You should calibrate if a major component in the analyzer has been changed, or if Control results are not within range, or when your local laboratory protocol requires.

### Schedule Maintenance

Maintenance	Daily	Weekly	As Needed
Shutdown Analyzer <sup>1</sup>	x		
Zap Apertures <sup>2</sup>		x	x
Flush Apertures <sup>2</sup>		x	x
Probe Cleanser Cleaning <sup>2</sup>		x	x
E-Z Cleanser Cleaning <sup>2</sup>			x
Diluent Prime <sup>2</sup>			x
Rinse Prime <sup>2</sup>			x
Lyse Prime <sup>2</sup>			x
Clean Baths <sup>2</sup>			x
Replace Air Filter			x
General Cleaning	x		x
Empty Waste Reservoir	x		x
Check Reagents levels	x		x
Calibration			x
Prepare to Ship <sup>3</sup>			x

If system error occurs, refer to chapter “Troubleshooting Your Analyzer” of the Operator’s Manual.

More detailed information is in BC-3200 Operator’s Manual.

<sup>1</sup> Press [MENU], select "Shutdown", then follow on-screen instructions.

<sup>2</sup> Press [MENU], select “Service”, then “Maintenance” to locate the function.

<sup>3</sup> Press [MENU], select "Service", then “Prepare to Ship”, follow on-screen instructions.