

# HemoCue WBC Diff Quality Control -WBC

**Frequency:** Hemocue WBC Diff Controls must be run upon receipt of cuvettes (for each lot number) and or monthly basis respectively.

## Materials Required

- 3 x HemoCue WBC Diff Microcuvettes
- QC package insert
- QC vials (low, high, normal)



## Preparing QC Materials

Remove vials from the refrigerator and bring to room temperature for **15 minutes** before mixing.

## QC Failures and Corrective Actions

Check that the controls are not expired.

1. Ensure the controls have not been in use for more than expiry date (30 days once opened).
2. Ensure WBC Diff cuvettes and controls have been stored correctly.
3. Repeat testing using new control materials, ensuring controls are well mixed and the testing procedure is carefully followed.
4. If this repeat testing fails, **DO NOT PERFORM ANY PATIENT TESTING** until the issue is resolved. Contact your local PoCT Coordinator
5. Document any error codes etc in the Log issues section of the HemoCue WBC Diff Maintenance Log Sheet.

# HemoCue WBC Diff

## Quality Control -WBC

### Running QC

1. Prepare analyser for QC by pressing the button on the right, then scroll down to “QC Test” and select the right button again. Confirm QC test by selecting the green tick. Enter operator ID, then enter control ID (lot number). Confirm input by pressing the right hand button. Now the analyser is ready to accept the QC.



2. To mix, hold a vial horizontally between the palms of the hands (**DO NOT pre-mix on a mechanical mixer**).
  - a) Roll the vial back and forth for **20 - 30 seconds**; occasionally invert the vial. Mix vigorously, but **DO NOT** shake.
  - b) Continue to mix in this manner until the red cells are completely suspended. Vials stored for a long time may require extra mixing.
  - c) Gently invert the vial 8 - 10 times immediately before sampling.
  - d) Remove cap from vial. Dispense drop of control on Parafilm™ or other appropriate material (the packaging of the microcuvette is perfect!).



3. Fill cuvette according to the manufacturer's instructions
4. Results will be displayed on the screen within **5 minutes**, the target values can be located on the package insert of the QC material. Sign and date *Maintenance Log* sheet to indicate QC has been performed.



After sampling, clean residual material from the cap and vial rim with a lint-free tissue. Replace the cap tightly and return tubes/vials to refrigerator within **30 minutes** of use.