

## QUICK REFERENCE GUIDE: HEMOCHRON Signature Elite Activated Clotting Time Low Range (ACT - LR) Cath Lab – BC Children’s Hospital, PHSA

### Perform at startup and every 8 hours

When in use for patient testing perform the Electronic Quality Control (EQC) at start up and every 8 hours thereafter.

To perform the EQC perform the following steps:



1. Press “START” KEY to power ON. Indicator Light is on (green).
2. Press “QC” key to display QC status.
3. Press “1” to run Internal EQC & Temperature Verification.
4. Results displayed while test is progressing.
5. Display: N=30 sec. ABN=500 sec. Test Passed. Temperature.
6. Record on Cath Lab EQC, Maintenance and LQC Form

### Perform Daily (24 hours) when patient testing is performed.

#### Maintenance Tasks

Daily (or when in use) perform the following tasks

1. Inspect and clean the instrument if required.
2. Confirm Instrument has been plugged in to a power outlet. (Instrument requires a minimum 8 hr. charge)
3. Confirm the date and time on the Hemochron is correct.
4. Perform a **Battery Check**
5. Run both levels of the liquid QC

To perform a **Battery Check** follow the below steps:

1. Press and hold the “START” KEY to power ON.
2. Press “0” (zero) to display MAIN MENU.
3. Press “1”. Battery status is displayed.
4. Document Battery Voltage on Form A.
5. Press “CANCEL” twice.

Document tasks on the CathLab EQC and Maintenance Form

#### Patient Test

Instrument is plugged into a power outlet. (Instrument requires a minimum 8 hr. charge).

1. To turn instrument “ON”. Press “Start” KEY.
2. Instrument has passed Daily EQC.
3. LQC L1 & L2 are within QC range.
4. Confirm ACT-LR cuvette lot & RT expiry.
5. Remove ACT-LR cuvette from foil package.
6. Insert ACT-LR cuvette into cuvette opening on side of instrument.
7. During pre-warm stage observe display for any fault/warning messages.
8. Instrument will signal with audible tone & display “Add Sample...Press Start”. You now have 5 minutes to:
  - a. Acquire the sample.
  - b. Fill the sample well.
  - c. Press the “START” key.
9. Collect patient sample - 150 uL - as per institutional guidelines.
10. Wipe blunt needle on syringe. Discard first drop. Dispense 2-3 drops sample into cuvette well. Push any excess sample into the outer well.
11. When result is ready document onto patient permanent record.
12. Remove cuvette and dispose.

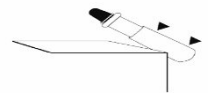
#### Liquid QC (LQC)

To perform the Liquid Quality Control (LQC) perform the following steps:

1. Remove Level 1 & Level 2 LQC from 4°C.
2. Allow LQC to warm to RT – 60 minutes.
3. Instrument has passed Daily EQC.
4. To turn instrument “ON”. Press “START” KEY.
5. Confirm LQC lot #'s; ACT-LR cuvette lot # & RT expiry with QC/patient RECORD FORM.
6. Insert ACT-LR cuvette into cuvette opening on side of instrument.
7. Instrument will signal with audible tone & display “Add Sample...Press Start”.

You now have 5 minutes to:

- a. Prepare the QC vial.
  - b. Fill the sample well.
  - c. Press the “START” key.
8. Remove shrink wrap from LQC vial.
  9. Insert LQC vial into white plastic sleeve.
  10. Hold vial upright & tap gently on counter.
  11. Crush inner glass ampule by bending the vial over edge of counter.
  12. Repeat x2 to ensure vial is crushed.
  13. Quickly shake the dropper vial 10-15 times.
  14. Remove vial from plastic sleeve.
  15. Flick contents to dropper end.
  16. Remove cap and hold vial cap.
  17. Squeeze vial to discard the first drop of LQC into the vial cap.
  18. Dispense 2-3 drops of LQC into cuvette well. Push any excess LQC into the outer well.
  19. Depress the “START” key.
  20. Recap the control vial and dispose vial into biohazard waste.
  21. Wait for beep to signal end of test.
  22. Record and review LQC results (whole blood equivalents) on CathLab LQC Form.
  23. Remove cuvette and dispose.



**Note:** Refer to complete SOP available on ePOPs for additional details, troubleshooting and limitations.

All steps are performed using [Infection Control institutional guidelines](#).

Please scan and email the Cath Lab EQC, Maintenance and LQC Form to [POCTLAB@cw.bc.ca](mailto:POCTLAB@cw.bc.ca)

Notify POCT technologist if test fails for any testing process. Monday – Friday: 604-875-2345 ext.: 7521

**Revision and Approval Log**

Version	Description of Change	Revision Date
1.0	New document for LabQMS Upload	April 5, 2019
1.2	Reformatted	April 8, 2019
1.3	Added Revision Log	April 10, 2019

**Attention: This document is published on the ePOPS website**

**Revisions made to this document require an update to the corresponding document published on ePOPS website**