I-STAT RUNNING QUALITY CONTROL FOR HS-TROPONIN (WACHS)

Quality Control (QC) for hs-Troponin (hs-TnI) Cartridges

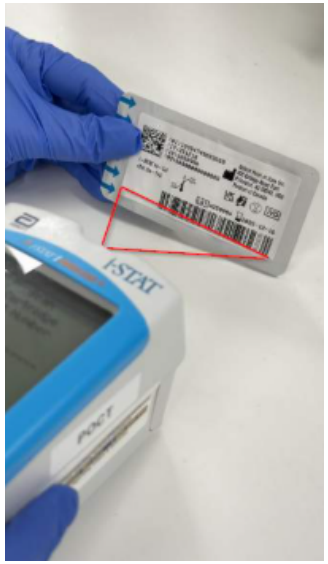
QC Using hs-TnI Control

- hs-TnI Level 1 QC must be run once a month when prompted by the i-STAT.
- QC schedule is triggered on the first Saturday of each month. You then have 10 days to perform the QC.
    - Failure to successfully run QC prior to the 10 day limit will block patient sample analysis until QC is run.
- Controls can be used until expiry date when stored at 2-8°C.
- Once opened, the control bottle is stable for **30 days** at 2-8°C.

Performing a Quality Control Test Using hs-TnI Control

Performing a QC Using hs-TnI Control

- Screen will indicate QC is due.
- Press MENU.
- Press 3 for Quality Tests.
- Press 1 for Control.
- Press 2 for Scheduled QC Due.
- Select the Cartridge type (4-hs-TnI).
- Select Control Level (1-APOC hs-TnI L1).
- Scan / Enter the Operator ID.
- Scan Control Lot Number from the control vial barcode.
- Scan Cartridge Lot Number from barcode.

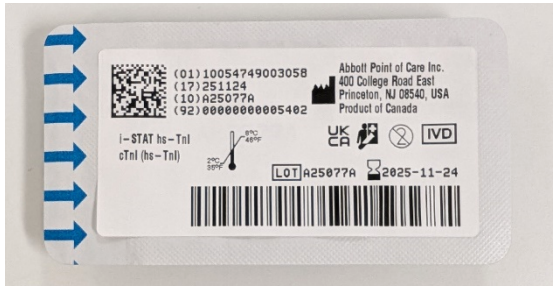


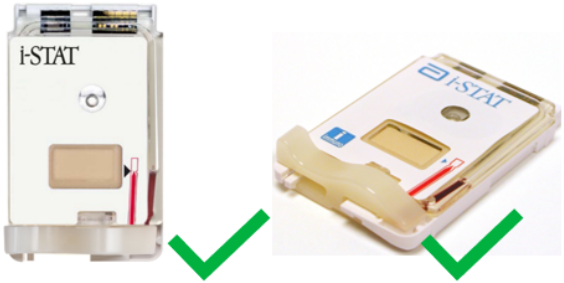
Remember: Remove i-STAT from the dock and place on bench to do testing

Performing a Quality Control Test Using hs-TnI Control (cont.)

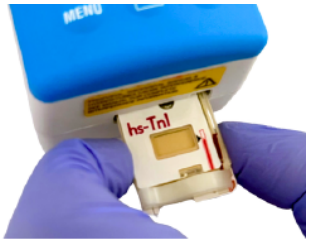
Filling the cartridge

- Remove control vial from fridge (2-8°C).
- Allow the control vial to equilibrate to room temperature (18-30°C) for 5 minutes.
- Remove cartridge from pouch.
- Mix by **gently inverting** vial 10 times.
- Dispense a drop of sample directly from the vial into the cartridge (do not touch dropper to cartridge).
- Seal cartridge by sliding the closure across fully, then insert into the i-STAT.





PROPERLY CLOSED CARTRIDGES



Performing a Quality Control Test Using hs-TnI Control (cont.)

QC results

- The results will appear on the i-STAT screen as **PASS** or **FAIL.**
- If the results are printed the Control Ranges will be on the printout.
- If the results fall outside expected range, follow troubleshooting guide.

Alternatively, QC targets can be reviewed via eVas (Electronic Value Assignment Sheet) website, access to this website can be found on the Point-of-Care testing HealthPoint button.

Other

- Abbott iSTAT eVAS Sheets

Performing a Quality Control Test Using hs-TnI Control (cont.)

Troubleshooting Out-of-Range Control Results

- Verify the following conditions are met and then repeat the test:
  - Cartridge and control vial are within printed expiry date or have not exceeded room temperature expiry date.
  - Cartridge and control have been stored correctly.
  - Control has been handled correctly as per directions for use.
  - i-STAT has passed the Electronic Simulator test.
  - At least 2 x Ceramic Cartridge cleans have been performed in the last month.
- If above conditions have been met, repeat the test using new box of cartridges and/or control solution.

Performing a Quality Control Test Using hs-TnI Control (cont.)

If the results are still out of range:

- DO NOT USE cartridges from the suspect lot.
- Quarantine the suspect lot.
- Notify PathWest POCT immediately:
  - (08) 6383 4143.
  - 0472 588 798.
  - POCT.pathwest@health.wa.gov.au.
- Record the QC failure and corrective action taken.