**Authorization**

* Requires pre-authorization by MAHELAB, with necessary background safety certification & once-through observed training session

**Hazards associated with equipment/machinery/materials/technique/process**

* See SDS

**Personal protective equipment**

* Lab coat/gown, Eye protection, Nitrile gloves

**Environment where task is to be undertaken**

* Post-PCR bench

**Before you start work**

* See next page

**Emergency procedures**

* If skin/eye contact with chemicals, flush aggressively and continuously with water using an eyewash, sink or shower
* Contact emergency services and log any injuries if required

**Clean-up procedures**

* Benchtop surface wipedown with 70% isopropanol

**Waste disposal procedures**

* Tubes should be disposed of in yellow biohazard container

Signed:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Supervisor***

**Protocol:**

1. Identify the specimens requiring QUBIT assay quantification and label the necessary QUBIT tubes
2. Determine the amount of QUBIT working solution (WS) required relative to the number of specimens being assayed:

Volume WS required = \_\_\_\_\_\_\_ specimens x 220 uL

1. If there is insufficient volume of WS available, a new set of standards will need to be measured, requiring 2 additional tubes
   1. Label a clean 15 mL Falcon tube (label with the assay type and date)
   2. Add: (for a total of 10mL WS, which should be enough for 50 assay reactions)

QUBIT buffer = 9950 uL

QUBIT reagent = 50 uL

* 1. Standard 1: 190 uL WS + 10 uL standard solution 1
  2. Standard 2: 190 uL WS + 10 uL standard solution 2

1. Query specimens: 195 uL WS + 5 uL specimen
2. Vortex each tube x 5 seconds; incubate the tubes at room temperature x 2 minutes
3. Tap to wake the QUBIT; select the appropriate specimen and assay type
4. If the WS is fresh, read the new standards
5. Read each query specimen one at a time, ensuring that specimen volume is set accordingly (ie at 5 uL); record the concentrations (in ng/uL)
6. Update the specimen database with the concentrations
7. Any leftover WS should be stored in the 4C fridge