



REPLICATING

After startup procedure and opening program, prepare the Q-BOT for replicating as follows:

1. Make sure that the bed has the universal destination plate holders in place.
2. Place clean and dry wash station and brush in the Q-BOT.
3. Place picking head in the center of the Q-BOT, pins facing up.
4. Sterilize the Q-BOT by selecting UV light for 20 minutes.
5. Prepare source plates by thawing in hood if necessary.
6. Load hotel with destination plates in the order: Plate 1 copy 1, Plate 1 copy 2, Plate 2 copy 1, Plate 2 copy 2, etc. Begin at the top left slot, and continue to each column starting at the top slot. For two replications of 24, you will need to use both hotels (48 plates).
7. Once sterilization is complete, install picking head onto arm.
8. Add 80% Ethanol to the wash station
9. Load source plates on the bed of the Q-BOT (see manual for specific loading order). **DO NOT FORGET TO REMOVE THE LIDS!!!! MAKE SURE THE PLATES ARE LOADED CORRECTLY!!!**
10. Place hotels in the Q-BOT. Make sure they are all the way in place. **Push plates in the hotel all the way back.**
11. Select preferences in program: (most of this will be defaulted)
 - SOURCE= Universal Destination Plate Holder
 - # OF SOURCE PLATES= 24
 - DESTINATION= HOTEL
 - # OF REPLICATES= 2
 - DIPS TO INNOCULATE= 3

WASH CYLCES= Only wash bath one- 3 wash cycles, 10 seconds dry, 5 seconds wait

12. Select RUN, increase job # by one, enter your name, library name, plate #'s and replicate #'s.
13. Follow prompts (do not need to see script code), making sure that the Q-BOT is loaded the same way it looks on the screen. Double check the location and order of all plates before beginning run.
14. When run is complete, if there are more plates to replicate, begin the process again by putting in new source and destination plates and selecting RUN. Once again, make sure that the Q-BOT is set up the same way the computer shows it to be.
15. When finished, go through the regular SHUTDOWN process.
16. Grow replicates at 37 degrees for 20 hours. Place a 384-well plate filled with water both on top and bottom of the stack of replicates in the incubator to minimize evaporation of media.