

Assembling Materials for Environmental Sampling of Viral Pathogens

How to Prepare Cotton Gauze Samples

Supplies needed:

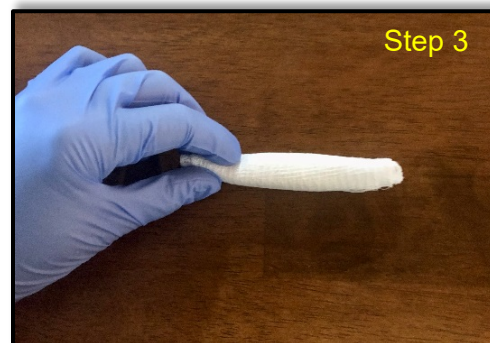
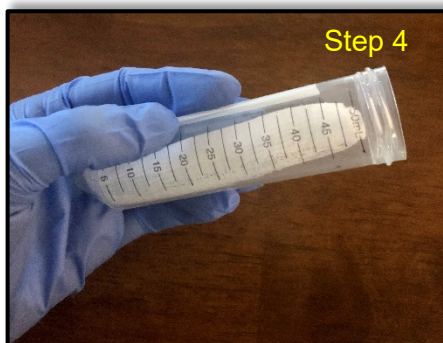
- 4 × 4 inch surgical cotton gauze
- Pre-moistening solution:
 - o Preferred pre-moistening solution – phosphate buffered solution (PBS) of 1X concentration and pH of 7.4
 - o Other option if unable to get PBS – 0.9% sterile saline
- 50 mL conical tubes
- Nitrile or latex gloves
- Disinfectant
 - o Consult the manufacturers label for the dilution and contact time that is appropriate for the pathogen of interest
 - o Some examples include:
 - 70% ethanol spray with contact time of 10 minute
 - 1:256 diluted quaternary ammonium/glutaraldehyde (Synergize) spray with contact time of 10 minutes
 - 1:16 diluted accelerated hydrogen peroxide (Intervention) spray with contact time of 5 minutes
 - 10% bleach spray with contact time of 10 minutes
- Paper towels
- Reusable plastic storage container

1. Clear off an area where supplies can be placed in one location for assembling sample materials. Once the work space has been cleared, apply disinfectant of choice following the recommendations on the manufacturer's label for dilution of disinfectant and time that is required for the disinfectant to sit on a surface for pathogen of interest. Wipe away with paper towels.

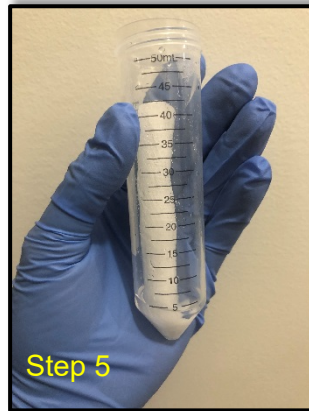
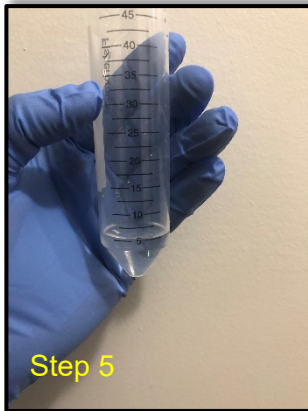
2. Place all needed supplies on the clean and disinfected surface. Put on a new pair of gloves.

3. Roll up a piece of cotton gauze so that it can fit into a 50 mL conical tube (as shown in picture below).

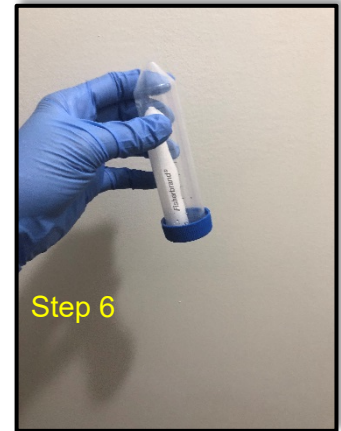
4. Open a 50 mL conical tube and put one rolled up cotton gauze inside the tube (as shown in pictures below).



5. Measure 5 mL of pre-moistening solution and put it into the 50 mL conical tube that has cotton gauze inside (as shown in the pictures below). Close the 50 mL conical tube.



6. Agitate the conical tube so that the cotton gauze absorbs all of the pre-moistening solution (as shown in the pictures below).



7. Repeat steps 3-6 until the appropriate number of samples are made.

8. Close the pre-moistening solution and cotton gauze packaging then place all supplies in the reusable plastic storage container. Take off and discard used gloves. Store reusable plastic storage container in a dry and temperature stable area.

How to Prepare Paint Roller Cover Samples

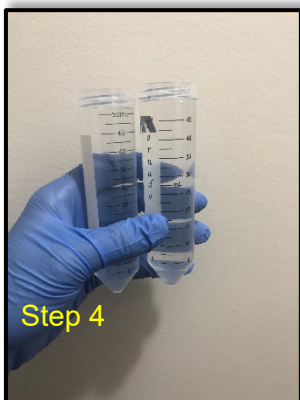
Supplies needed:

- Synthetic paint roller cover
- Plastic storage bag
- Pre-moistening solution:
 - o Preferred pre-moistening solution – phosphate buffered solution (PBS) of 1X concentration and pH of 7.4
 - o Other option if unable to get PBS – 0.9% sterile saline
- 50 mL conical tube for measuring
- Nitrile or latex gloves
- Disinfectant
 - o Consult the manufacturers label for the dilution and contact time that is appropriate for the pathogen of interest
 - o Some examples include:
 - 70% ethanol spray with contact time of 10 minute
 - 1:256 diluted quaternary ammonium/glutaraldehyde (Synergize) spray with contact time of 10 minutes
 - 1:16 diluted accelerated hydrogen peroxide (Intervention) spray with contact time of 5 minutes
 - 10% bleach spray with contact time of 10 minutes
- Paper towels
- Reusable plastic storage container

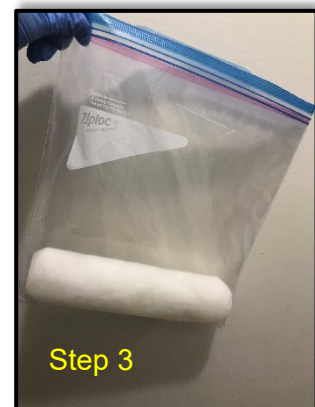
1. Clear off an area where supplies can be placed in one location for assembling sample materials. Once a workspace has been cleared, apply disinfectant of choice following the recommendations on the manufacturer's label for dilution of disinfectant and time that is required for the disinfectant to sit on a surface for pathogen of interest. Wipe away with paper towels.

2. Place all needed supplies on the clean and disinfected surface. Put on a new pair of gloves.

3. Open a plastic storage bag and put one paint roller cover in the plastic storage bag (as shown in the picture on the right).



4. Measure 100 mL of pre-moistening solution (can use conical tubes if needed) and add to the plastic storage bag containing the paint roller cover (as shown in the two pictures on the left).



5. Close the plastic storage bag and agitate the plastic storage bag so that the paint roller cover absorbs all of the pre-moistening solution (as shown in the pictures on the right).

6. Repeat steps 3-5 until the appropriate number of samples are made.

7. Close the pre-moistening solution and paint roller cover packages then place all supplies in the reusable plastic storage container. Take off and discard used gloves. Store reusable plastic storage container in a dry and temperature stable area.

