

**SOP: SP001.4**

**Modified: 4/27/2021 by MCL**

**Washing Glassware (and Other Items)**

**Materials and Reagents:**

1. Dirty dishes
2. Sponge, brushes (assorted sizes)
3. PCC-54 detergent (VWR Cat #: PI72289)
4. Water
5. Milli Q water (or distilled water)
6. Gloves
7. Versa Dry Mats
8. Lab coat (optional)
9. Razor blade (optional)
10. Goo Gone (optional)
11. Ethanol (70%, 95% - optional)
12. Paper towel or Wypall (optional)

**Protocol:**

1. \_\_\_\_\_ Before beginning put away all clean, dry items on assigned shelves or bring to the main lab. Place caps loosely on all bottles and tubes (note 1).
2. \_\_\_\_\_ Fill sink with hot water and detergent (use approximately 2 pumps of PCC-54 detergent).
3. \_\_\_\_\_ Remove tape, labels, and adhesives from all items. If necessary, pre-soak bottle with labels and use a razor blade to carefully scrape off the label (note 2).
4. \_\_\_\_\_ Place items in detergent water and let soak for 1-2 minutes.
5. \_\_\_\_\_ Scrub all items, inside and out, with the appropriate sized brush or sponge. Do not use stiff wire brushes on fernbach flasks as these can result in etching of the glass. If sharpie marks cannot be removed, ethanol should be used.
6. \_\_\_\_\_ Rinse with tap water at least three times, or until all detergent is removed.
7. \_\_\_\_\_ DISHWASHER SAFE ITEMS (note 3):
  - a. Put dishwasher safe items into the dishwasher. Use the drawer at the top left for small items.
  - b. Close dishwasher door when full.
  - c. Press CYCLE MENU until the DOBOS10 cycle appears on screen (note 4).
  - d. Press SELECT CYCLE or use the arrow keys until DOBOS10 is blinking.
  - e. Press CYCLE-START twice to start.
  - f. Fill out equipment signup sheet.
  - g. When cycle is finished, open door (be careful of steam) and let items cool until they can be handled.
  - h. When ready to empty the glassware, fill out appropriate fields on the equipment signup sheet.
8. \_\_\_\_\_ PLASTICS, FERNBACH FLASKS, & OTHER NON-DISHWASHER SAFE ITEMS:
  - a. Rinse with DI or milliQ water three times to remove any detergent residue (note 5).

- b. Let items dry on Versa Dry Mats. Label the drying area to indicate that the dishes are clean, rinsed, and ready to put away.

9. \_\_\_\_\_ Put away items at indicated in step 1.

**Notes:**

1. If applicable, put autoclave tape on the lid and autoclave with the glass cycle (SOP SP057) in the media prep room. Please ask if you are not sure if an item should be autoclaved. If transporting items back to the main lab, use a cart or a secondary container and use the appropriate route (service hallways) for transport of lab materials.
2. Goo Gone should only be used in cases where there is significant adhesive buildup. Use only a small amount, and only on the outside of the container.
3. The dry cycle on the dishwasher uses high temperatures that can melt/warp some plastics. Dishwasher safe items include glass, metal, autoclave safe plastics, stir bars. Do not put fernbach flasks in dishwasher, as movement during the wash cycle can result in small cracks.
4. DOBOS10 cycle conditions are:
  - Rinse
    - Recirc. Time=10min
    - Hot Tap Water
  - Drying
    - TP=240°C 15min
    - Cooling 1min
5. Thorough rinsing is essential in order to avoid sample contamination.