

## BioTek 50/T8 Microplate Washer Protocol

### Create/Duplicate a Protocol

1. Refer to the protocol instructions supplied with the assay kit for specific details including number of washes, wash dispense volume, soak time, etc.
2. Select **Protocol** from the main menu.
3. Select a protocol to duplicate or select **Create**.

**Note:** Before creating a new protocol, view the existing saved assay protocols to see if one of those matches your plate washing specifications.
4. Name your protocol using the format: date (year.month.day)\_Analyte\_Manufacturer
5. Press **Add** and select the type of action to perform.
  - a. **Wash:** Program the wash volume per the protocol instructions; include the aspiration of well contents into the wash steps.
  - b. **Soak/Shake:** Program the amount of time for the plate to soak/shake.
  - c. After programming one wash and soak/shake cycle, copy and paste the steps based on the number of desired washes.
  - d. Press **Save**.

**Note:** Design the wash protocol in individual steps. If the protocol calls for three wash cycles with soaking between each wash, the wash protocol should have at least six total steps, three individual wash steps with individual soak steps in between.

### Washing the Microplate

6. Prior to washing your microplate, fill the container with the wash buffer supplied with your kit; diluted as per manufacturer's instructions.
7. Prime the system.
  - a. Press **Quick** at the Main Menu.
  - b. Press **Prime**.
  - c. Press **System**, then **Start**.
  - d. Also prime the manifold by pressing **Manifold** and **Start**.
8. Select your saved protocol from the Main Menu. Place your plate on the plate holder and press **Start**.
  - **During your first wash cycle, verify that each tube is aspirating and dispensing properly.**

**Note:** If you are running a magnetic bead assay (Luminex), make sure the black magnetic base is in place. Remember to remove it when you are done.
9. After your final wash, disconnect your wash buffer container and reconnect to a container filled with deionized water. Run a System Prime.
  - a. Press **Quick** at the Main Menu.
  - b. Press **Prime**.
  - c. Press **System**, then **Start**.
  - d. Also prime the manifold by pressing **Manifold** and **Start**.
10. Turn off the plate washer.