This guide is intended for users who have been trained in the proper use of the AssayMAP Bravo Platform and understand the safety guidelines in the Bravo Platform Safety and Installation Guide. The procedures in this guide require the Protein Sample Prep Workbench and VWorks Automation Control software. See the user guide to verify the required software versions.

**Step 1. Design the Reformatting method**

To open the Method Setup Tool:

In the Utility Library, locate the Reformatting v1.0 banner, and then click Method Setup Tool. Follow the instructions on the screen to design and save a method.

For detailed guidelines, see the Reformatting Utility v1.0 User Guide in the Literature Library of the Protein Sample Prep Workbench.

**Step 2. Prepare the source and destination plates**

Ensure that the type of labware and volumes per well exactly match what is specified in the method that you created using the Reformatting Method Setup Tool.

**CAUTION**

Incorrect labware selections can cause a hardware collision, resulting in equipment damage. Ensure that the type of labware you use for the source and destination plates match the labware specified in the method you are using.

**Step 3. Start up the system**

To start up the system:

1. Check the levels of the wash station source and waste carboys, and fill or empty as required.
2. Turn on the AssayMAP Bravo Platform and Pump Module.
3. Start the Protein Sample Prep Workbench, and open the Utility Library.
4. Open the System Startup/Shutdown utility.
5. Click Run Startup to initialize the AssayMAP Bravo Platform and accessories.

**WARNING**

During the Bravo initialization, the head and tie bar move. To prevent injury, keep clear of the device while it is in motion.

6. During the Startup protocol, verify that all the wash station chimneys have liquid flowing through them.
Step 4. Run the utility

To run the Reformatting utility:

1. Open the Reformatting utility.
2. Under Select and Load a Reformatting Method, click \( \ldots \) to select the method that you created in "Step 1. Design the Reformatting method" on page 1.
3. Click Display Bravo Layout to display the Method Loaded and the Deck Layout information.

![Select and Load a Reformatting Method](image)

**WARNING**
The probes of the Bravo 96AM Head are sharp and can scratch you if they brush across your hand. A probe scratch can expose you to any contaminants remaining on the probes. Be careful to avoid touching the probes.

4. Ensure that the following items are securely in place at their respective AssayMAP Bravo deck locations:
   - Bravo Plate Riser at deck locations 2 and 6.
   - The empty 96AM Cartridge & Tip Seating Station at deck location 5.

![Deck Layout](image)

**CAUTION**
To prevent a potential collision, ensure that no thermal plate insert is on the Peltier Thermal Station installed at deck location 4.

5. Place a tip box full of fresh 250-µL pipette tips at deck location 3, place the source plate on the plate riser at deck location 2, and place the destination plate on the plate riser at deck location 6.
Improperly seated labware can cause a hardware collision, resulting in equipment damage. Ensure that all labware are properly seated within the alignment features of their respective platepads.

**Step 5. Clean up after each run**

6. Click Run Protocol to start the protocol.

To clean up after the run:
1. Remove used labware from the deck, and clean up any spills.
2. Discard the used pipette tips from the tip box at deck location 3.
3. Transfer the unused pipette tips from the 96AM Cartridge & Tip Seating Station at deck location 5 to unused locations in the tip box.
4. Remove the Bravo Plate Risers from deck locations 2 and 6.
5. Discard any leftover reagents appropriately.

**Step 6. Shut down at end of day**

To shut down at the end of the day:
1. Open the System Startup/Shutdown utility.
2. Remove everything from the deck except the 96AM Wash Station (deck location 1).
3. Place the 96AM Cartridge & Tip Seating Station at deck location 2, and then click Run Shutdown.
4. After the Shutdown protocol has completed, turn off the power at the AssayMAP Bravo Platform and the accessories.
5. Close the Protein Sample Prep Workbench software.

**Utility overview**

The following figure shows the interface for the Reformatting utility. The following table summarizes the basic movements of the AssayMAP Bravo Platform during the Reformatting protocol.
<table>
<thead>
<tr>
<th>Protocol process</th>
<th>Process name</th>
<th>Process description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Prepare Syringes</td>
<td>Dispenses the contents of the syringes at the wash station (deck location 1), and then dries the syringes.</td>
</tr>
<tr>
<td>2</td>
<td>Initial Tip Transfer</td>
<td>Transfers the 250-µL pipette tips from the tip box (deck location 3) to the 96AM Cartridge &amp; Tip Seating Station (deck location 5).</td>
</tr>
<tr>
<td>3</td>
<td>Single Tip Pickup</td>
<td>Picks up the next available individual pipette tip from the 96AM Cartridge &amp; Tip Seating Station (deck location 5) using probe A12 of the Bravo 96AM Head.</td>
</tr>
<tr>
<td>4</td>
<td>Source Plate Prep for Transfer</td>
<td>Moves to the designated well in the source plate (deck location 2). Optionally, the following steps can occur:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If a blowout is specified, aspirates an air gap.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If specified, prewets the pipette tips.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If specified, performs the set number of mix cycles to mix the well contents of the source plate.</td>
</tr>
<tr>
<td>5</td>
<td>Transfer from Source to Destination Plate</td>
<td>Aspirates the specified volume from the source plate well into the pipette tip, and then dispenses the fluid into the specified well in the destination plate (deck location 6). Optionally, the following steps can occur:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If specified, mixes the contents of the well in the destination plate for the specified number of mix cycles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• If specified, performs a blowout, followed by a tip touch on the east and west sides of the well.</td>
</tr>
<tr>
<td>6</td>
<td>Single Tip Eject</td>
<td>Ejects the used pipette tip into the tip box (deck location 3).</td>
</tr>
<tr>
<td>7</td>
<td>Additional Transfers</td>
<td>Repeats processes 3 through 6 for every designated well in the source plate (deck location 2).</td>
</tr>
<tr>
<td>8</td>
<td>Park Head</td>
<td>Moves to the parked position above the wash station at deck location 1.</td>
</tr>
</tbody>
</table>