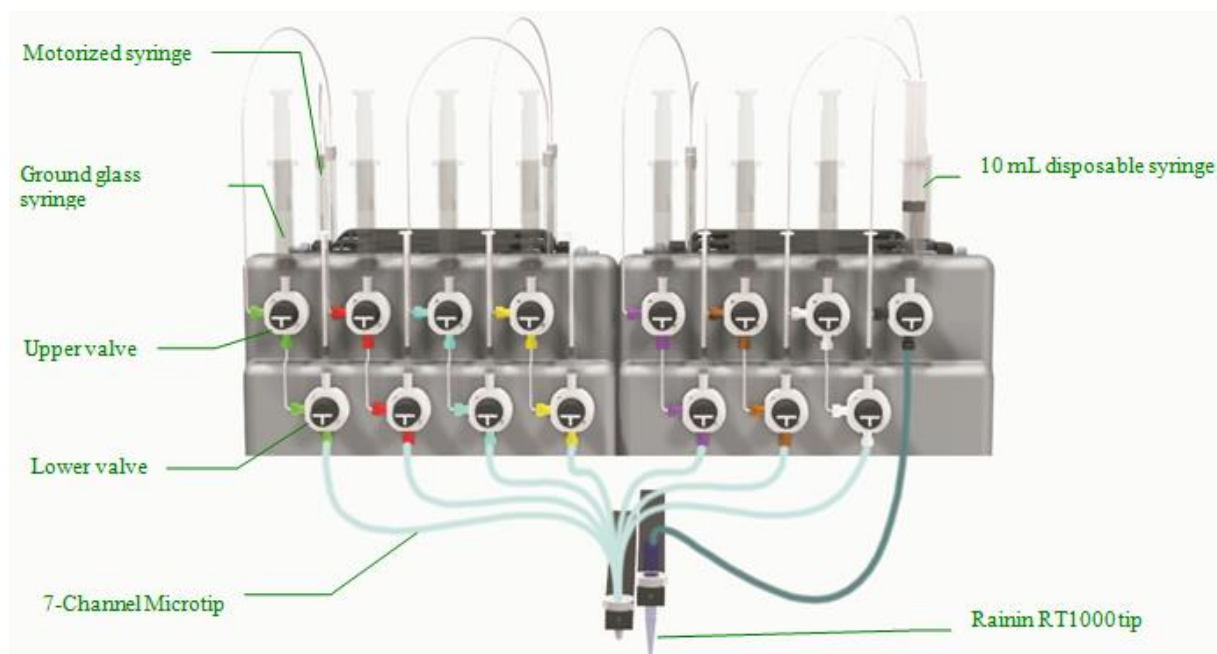
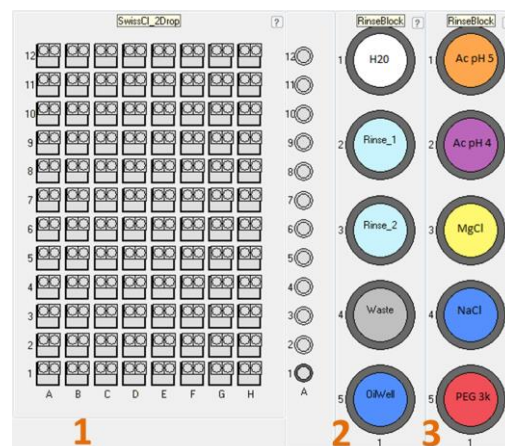



Optimization – Hardware Preparation

Step by step instructions

1. Connect a **7-bore Microtip**. Use the Install tip wizard (Front Panel: Actions -> Install tip)
*Note that **stock plate preparation** experiments do not require a Microtip.
2. Place a new **plate** on the Plateloader (1)
3. Place the **protein load / rinse block (2)** and **precipitant load block (3)** to the right of the Plateloader
4. Connect a Rainin RT1000 disposable 1 mL tip to the right hand arm of the Plateloader.
5. Ensure the 5 mL ground glass syringes are filled with degassed pure water.



6. **Execute experiment** by clicking on the dispense button: 
7. When the user clicks execute, another program called Front Panel will open. Front Panel talks directly to the robot and will guide the user through preparation for the experiment and then dispense the experiment automatically. During the preparation the software will ask the user to:
 - a. Place plate and Rinse / loading blocks onto the plate loader
 - b. Install a 7-bore Microtip (if not already done)
 - c. Test and adjust tip position to target well
 - d. Pipette ingredient solutions into jars and place on precipitant loading block (only if dispensing reservoirs)
 - e. Flush the 7-bore Microtip with water
8. Front Panel will then ask the user to place protein onto the protein loading block. Front Panel will also ask the user for other solutions that are to be dispensed by the Microtip.
9. After the solutions are loaded the experiment will start.