

Intended Use

The AtheNA Instrument contains many fluid lines that must be kept clean and free flowing for proper operation. It is imperative to follow the recommended daily maintenance procedure to ensure that the fluid lines are maintained properly. ZEUS Scientific recommends that the user perform the daily startup and shutdown procedures each day that the AtheNA Instrument is used. The AtheNA Instrument Maintenance Kit provides all of the materials necessary to perform both procedures.

Maintenance Kit Components

The AtheNA Instrument Maintenance Kit contains the following components.

SOLN	pH	1.	High pH Wash Solution: Two, 60mL bottles.
SOLN	BUFF	2.	Buffered Wash Solution: One, 35mL bottle.
SOLN	ALCL	3.	70% Alcohol Flush Solution: One, 100mL bottle.
SOLN	DRGT	4.	Detergent Wash Solution: One, 35mL bottle.
PLATE		5.	4, 96-well plates. Each plate contains 12, 1 x 8 - well strips.
		6.	The AtheNA Instrument Maintenance Kit also includes a Package Insert providing instructions for use.

Materials Required But Not Provided

- Household bleach (Sodium Hypochlorite).
- DI Water.

Precautions

- This product is for Laboratory Use Only.
- The High pH Wash Solution contains a strong base which is corrosive. Do not allow the solution to contact skin or eyes. If contact occurs, immediately flush with copious amounts of water and consult a physician.
- The 70% Alcohol Flush Solution contains alcohol and therefore is flammable.

Storage

Store the Maintenance Kit/Components at room temperature (20 - 25°C).

Procedure

- AtheNA Startup Procedure:**
 - Verify that the computer, instrument, and XY platform are turned on.
 - On the opening screen of the AtheNA software, press the "Read Plate" button.
 - Fill the Sheath Fluid container* and ensure that the cap is tight.
 - Empty the waste container and add 50 - 100mL of household bleach to the empty container.
 - Place one empty 1 x 8-well strip into column 1 of the plate frame.
 - Place 200 - 300µL of High pH Wash Solution in wells A1 - D1.
 - Place 200 - 300µL of Buffered Wash Solution into wells E1 - H1.
 - Place the plate on the XY Platform.
 - Fill the XY Platform Reservoir with 70% Alcohol Solution.
 - Select the AtheNA Startup procedure from the menu.
 - Push the "Finished" button on the first screen.
 - Push the "Start Plate" button.
 - The process will be completed in a short period. When complete, eject the plate and remove it.
 - Remove the XY Platform Reservoir, rinse with DI water, fill with Sheath Fluid, and place it back on the platform before use.
- AtheNA Shutdown Procedure:**
 - On the opening screen of the AtheNA software, press the "Read Plate" button.
 - Fill the Sheath Fluid container* and ensure that the cap is tight.
 - Empty the waste container and add 50 - 100mL of household bleach to the empty container.
 - Place one empty 1 x 8-well strip into column 1 of the plate frame.
 - Place 200 - 300µL of Detergent Wash Solution into wells A1 - D1.
 - Place 200 - 300µL of DI water into wells E1 - H1.
 - Place the plate on the XY Platform.
 - Fill the XY Platform Reservoir with High pH Wash Solution.
 - Select the AtheNA Shutdown Procedure from the menu.
 - Push the "Finished" button on the first screen.
 - Push the "Start Plate" button.
 - The process will be completed in a short period. When completed, eject the plate and remove it.
 - Remove the XY Platform Reservoir, rinse with DI water and replace it.
 - Turn off both the AtheNA instrument and the XY Platform.
 - Loosen the cap on the Sheath Fluid bottle to release the pressure.

* Omit this step if your system utilizes a Sheath Delivery System.