

# KinExA 4000 & Autosampler Cleaning Guide

The following cleaning procedure is recommended monthly or as needed to control contamination. Be sure to clean the Buffer Bottle, Particle Reservoirs, and the Instrument to avoid re-contamination.

Before cleaning the Autosampler, the Pressure Transducer needs to be bypassed if it is not stainless steel to avoid corrosion. See How to Guide 238 - Bypassing the Pressure Transducer (HG238) for instructions.


**Note: The 4000 does not require the Pressure Transducer to be bypassed.**

## KinExA 4000 & Autosampler

- Whenever any new solution is introduced, a **Buffer Change** procedure should be performed to put an air bubble between the solutions. Introducing a bubble to the *Buffer Line* reduces mixing of the new solution with the old. Newer versions of the *KinExA Pro Software* have an automated tool that guides a user through the procedure.

- Click on the **Buffer Change** icon {  } and follow the directions provided.

- **Bleach Solution\***: Open the **Fast Rinse** {  } screen and run [10] cycles. Repeat the **Buffer Change** procedure to switch to the next solution.

- **KinExA® Cleaning Solution (overnight step)**: Open the **Night Wash** {  } rinse screen and run [25] cycles. Repeat the **Buffer Change** procedure to switch to the next solution.

**Note: A full 250 mL bottle is needed.**

- **Buffer of choice**: Open up the **Fast Rinse** screen and run [10] cycles.

## Propellers and Wash Station

- Submerge the *Propellers* in the bleach solution using caution not to break or bend the *Propellers*. Rinse the *Propeller* with DIH2O and submerge in *KinExA Cleaning Solution*®. Rinse again with DIH2O and let the *Propellers* dry.

- Remove the *Wash Station* from the *Instrument* before cleaning by removing the plumbing connections and turning the *Wash Station* counter-clockwise (left). Be careful when removing the plumbing from the *Wash Station* as some liquid will run out.

- Rinse the *Wash Station* with the bleach solution by pouring the solution into the two reservoirs. Repeat this with DIH2O then *KinExA Cleaning Solution* and a final DIH2O rinse.

**The KinExA Instrument and Autosampler may now be used.**

**Note: If the Autosampler is connected to the 3200 Instrument and the original Sample Lines of the Instrument will not be used for a week or more, be sure to rinse them several times with DIH2O prior to attaching the Autosampler to avoid salt crystal formation. If you do not plan to use them at all, you may air dry the Lines as well (rinse several times without liquid).**

*\* It is important to keep the bleach solution below 0.5% NaOCl (sodium hypochlorite). If using household bleach, (5% NaOCl) a 10 fold dilution is adequate. If using concentrated sodium hypochlorite solution (10-15% NaOCl) a 20 to 30 fold dilution should be used.*