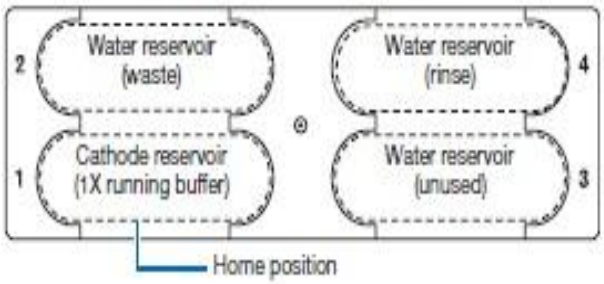
Applied Biosystems™ 3130/3130*xl* Genetic Analyzers Maintenance Checklist

For detailed information on each of the steps below, please refer to the Applied Biosystems™ 3130/3130*xl* Genetic Analyzers Maintenance, Troubleshooting, and Reference Guide (Cat. No. 4352716).

Daily Tasks

- ☐ Ensure that adequate levels of buffer and water are in reservoirs.
- ☐ Make sure that the plate assemblies are properly assembled. The holes in the plate retainer must align with the holes in the septa to avoid damaging the capillary tips. The sides of the plate retainer must sit flat to avoid an error message on the system.
- ☐ Check the level of buffer in the buffer jar. The bottom of the meniscus should be at the top of the line, and the overflow hole should face the front of the instrument.
- ☐ Replace the water and 1X Running Buffer in the reservoirs on the instrument every 48 hours. Make sure that the outsides of the assemblies are dry.
- ☐ Ensure that the buffer and water reservoirs are in the proper positions.



- ☐ Check for bubbles in the pump block, lower polymer block, interconnect tubing, polymer supply tube, and channels. If bubbles are present, remove using the Bubble Remove Wizard.
- ☐ Check the loading-end header, and make sure that the capillary tips are not crushed or damaged and do not have dry polymer (white crystals) on the tip.
- ☐ Check the level of polymer in the bottle to ensure sufficient volume for runs.

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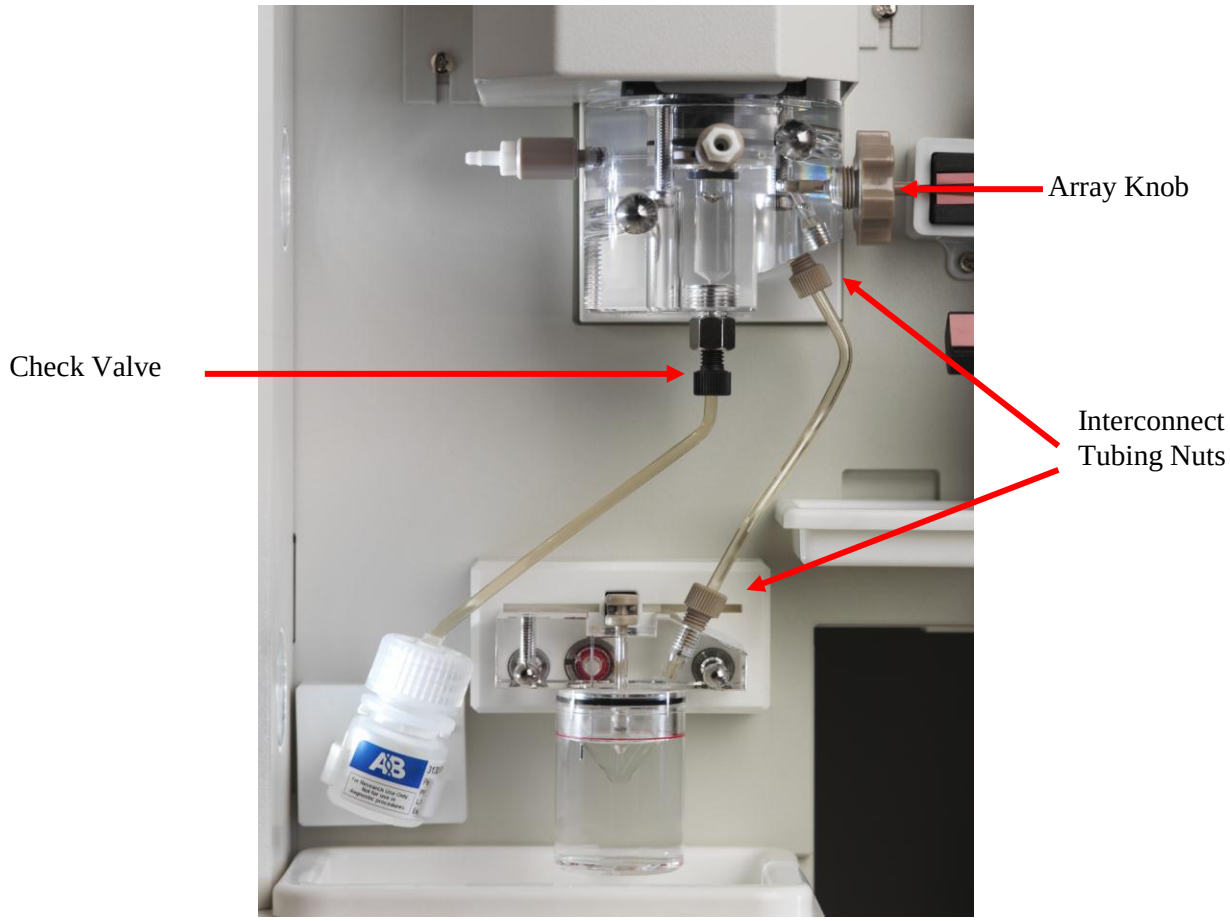
Array	Approximate polymer usage/run
4 capillary – 36 cm array	20 µL
4 capillary – 50 cm array	40 µL
16 capillary – 36 cm array	40 µL
16 capillary – 50 cm array	80 µL

Bubble Remove Wizard uses 0.5 mL of polymer.

- ☐ Clean the instrument surfaces.

- ☐ Check for leaks around the array knob, interconnect tubing nuts, and check valve. Polymer leaks may appear as clear and viscous or, if the polymer has dried out, as a white, flaky residue. If you are uncertain if there is a leak, use a dry, lint-free cloth (e.g., Kimwipes™ tissue) and press it near the fitting. If there is a fresh leak, the cloth will become wet or you will see residue fall from the leak source.



Weekly Tasks

- ☐ Replace the polymer using the Replenish Polymer Wizard.
- ☐ Flush the Water Trap.
- ☐ Check the storage conditions of the used arrays.
- ☐ Restart the computer and instrument.

Monthly Tasks

- ☐ Run the Water Wash Wizard. Flush the array port during this wizard, whether or not bubbles are present in the array port.
- ☐ Defragment the hard drive (C and E drives only).

As-Needed Tasks

- ☐ Clean the drip tray.
- ☐ Change the array.
- ☐ Use the Database Manager to clean up the database.

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