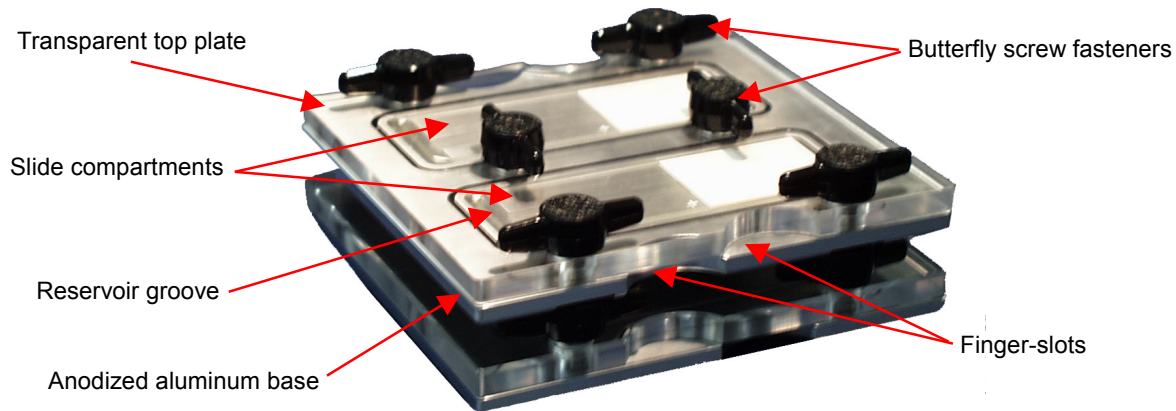


Detailed Picture of the GeneMachines HybChamber*



*Picture shows two HybChambers stacked on top of each other. Each HybChamber is sold separately.

Instructions for Use

Before setting slides into the HybChamber:

- For humidification, deposit ~10 μ L of 3xSSC or water into the reservoir grooves (located in the bottom of each slide compartment).

Hybridization:

- Place a slide, array-side up, into each slide compartment (1 slide per compartment)
- Place the transparent cover over the aluminum base and align the screws with holes in the base.
- Manually tighten each of the 6 butterfly screw-fasteners as tight as possible. When the top and base are completely sealed, the black gasket will look darker because it is pressed against the transparent top plate. Do not use tools such as pliers to tighten the screws as this may cause damage to the HybChamber.
- Keeping the transparent top facing upwards at all times, place the HybChamber into a temperature-controlled water bath according to protocol. Be sure to use a secondary container in the water bath to prevent the HybChamber(s) from touching the heating surfaces of the water bath. Something as simple as a plate lid should be sufficient.



Do not allow the HybChamber to come into direct contact with the walls or bottom of the water bath! These surfaces are very hot and may raise the hybridization temperature significantly and/or damage the HybChamber!

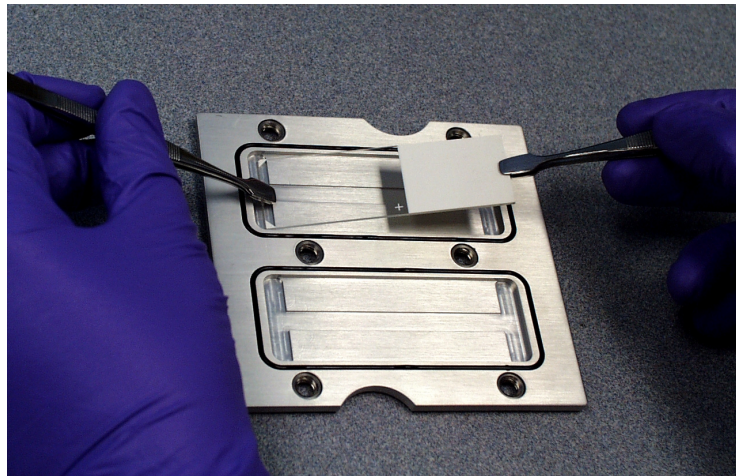
- If multiple HybChambers are being used, they can be stacked in the water bath. The base of each HybChamber has indentations that allow it to interlock with the top of the HybChamber below it. After stacking them in the water bath, make sure that there is sufficient water to keep all of the HybChambers submerged for the entire incubation period.

After hybridization:



After removing the HybChamber from the hot water bath, do not place it into a cold water bath or under cold water! Sudden temperature changes may cause water leakage!

- To separate the top from the base most easily, do not wait until the HybChamber has **totally cooled down!** The closer the temperature to the incubation temperature and the easier it is to open the HybChamber. This will also minimize the chances of water spilling onto the slide (due to differences of pressure between the inside of the HybChamber slide compartments and the outside air)
- Unscrew each knob by ½ to 1 full turn and separate the top and base slightly by twisting the finger-slots. The top will not be completely removed, but the vacuum in the slide compartments will be released.
- Finish loosening the six screws until the top separates completely from the base.
- To remove a slide, press down on one end to make the other end slant up for easy removal. Do not touch the area of the slide containing the array. (Please refer to the picture below.) If there is a great deal of liquid in the reservoir groove (underneath the slide), the surface tension may be too great for the slide to slant up. In this case use tweezers to pick up the slide from one end.



- After removing the slides, be sure to rinse the HybChamber promptly with distilled water and dry it thoroughly with paper towels.

Contacting GeneMachines

Please contact GeneMachines if there are questions about using or maintaining the HybChambers. To help us assist you, please include or be prepared to provide the following information when contacting GeneMachines: the name of the organization or institution that you are from, your contact information and a description of the question or problem.

Contact information: Phone: 650-508-1634
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