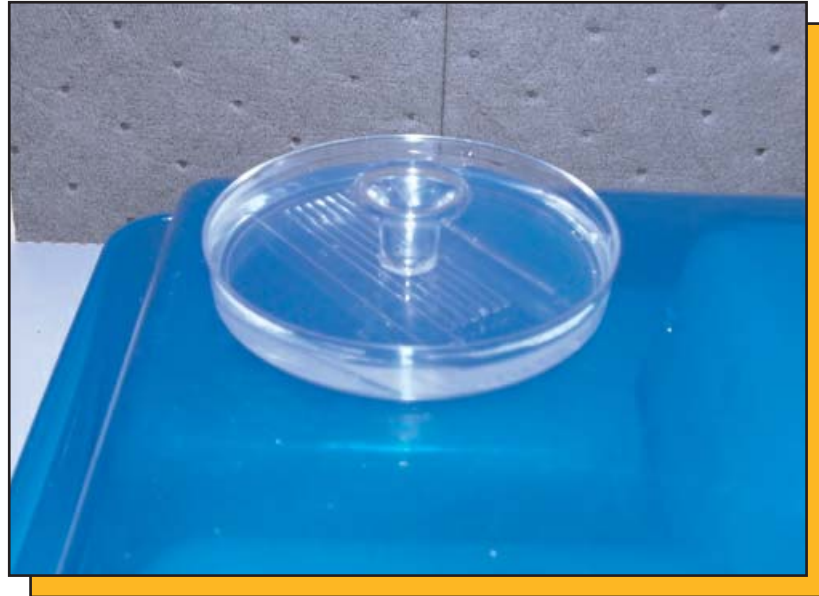


# OPERATOR'S MANUAL

## FM-500 - MICROINJECTION FISH MOLD

60 INDIVIDUAL WELLS



IBI Catalog Number: **FM-500**

### A. SAFETY INFORMATION

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#### Important Safety Information!

- ◆ Please read this manual carefully before using your new FM-500 fish mold.
- ◆ This manual contains important operating and safety information.
- ◆ To best use the product, please read the entire manual carefully prior to use.
- ◆ To avoid possible injury, this product should only be used for its intended purpose.

### B. MICROINJECTION FISH MOLD USAGE

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- ◆ Boil a 3% agarose slurry into a solution. **Warning:** Do **NOT** place the mold into the boiling agarose immediately after removing from the microwave. Extreme heat may cause poor lane creation or warpage to the mold itself.
- ◆ Cool the agarose to approximately 45°C on the benchtop prior to use. While the agarose solution is cooling soak the fish mold plate in DI water.
- ◆ When the agarose solution is near ready for use, quickly dry the fish mold plate use compressed air or equivalent.

- ◆ Pour the agarose solution (@45°C) into a petri dish. A typical thickness for the agarose gel is 5mm, but the gel thickness can be adjusted to whatever you desire.
- ◆ Immediately place the microinjection fish mold over the petri dish. Allow one end of the fish mold to touch the agarose solution, and allow the fish mold to gently lay into the agarose in one smooth motion. This floating action will help eliminate air bubbles from forming.
- ◆ Once the fish mold has been placed into the agarose solution, allow the agarose to solidify and cool to room temperature.
- ◆ Now that the mold has cooled to room temperature place the entire petri dish into a refrigerator (@+4°C) for approximately 30 minutes.
- ◆ After 30 minutes, remove the petri dish from the refrigerator. To remove the fish mold from the agarose gel, gently slip a spatula under the perimeter of the mold to assist in separation from the agarose gel. Slowly pop the fish mold out of the agarose gel. If done carefully, the mold will release from the agarose cleanly and without distortion.
- ◆ The agarose gel injection plate you just made is reusable. Carefully flood the impression with the same TBE Buffer used to make the agarose slurry earlier. Cover the petri dish and refrigerate (@+4°C).
- ◆ When you are ready to place the embryos into the agarose plate, simply cut away the agarose gel from the end of the lanes. This will allow the liquid in the lanes to drain away from the usable gel space.
- ◆ Remove all the TBE buffer and liquid from the surface of the agarose gel injection plate prior to placing the embryos into position. Place the embryos into the lanes and rotate to the proper position. The surface tension of the agarose mold will prevent the chorions from shifting.
- ◆ You are now ready to begin your injections.

## C. CLEANUP

- ◆ Use a mild dish soap and warm water to clean the microinjection fish mold. Ensure all agarose has been removed from the mold, any debris left on the mold plate will interfere with the next pour. Use a soft cloth or compressed air to dry. Note: Never use abrasive cleaners, abrasives or sharp objects that may harm or scratch the surface of the fish mold.



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