

Protocol document

Shipping embryos and/ or fry

Source: https://zfin.org/zf_info/zfbook/chapt1/1.7.html#babies

Embryos are shipped at 24hpf after iodine disinfection (see iodine disinfection protocol) unless otherwise specified

Materials

- 250 ml tissue flask
- Embryo medium (see embryo medium protocol)
- Parafilm
- Styrofoam box fitted inside cardboard box. Must fit tightly
- Styrofoam packing peanuts
- Packing tape

Packaging

- Fill a 250 ml tissue culture flask with 150 ml of Embryo medium
- Add 100 embryos max per flask. For fry, add 50 fry max per flask. Do not add more water as the airspace is needed for gas exchange.
- Close the flask lid tightly and wrap with parafilm.
- Place the flask(s) inside the Styrofoam box, fill with Styrofoam packing peanuts around the flask and fill to the top, filling all the space so that the flask is not able to move around.
- Secure the Styrofoam box lid and seal around with packing tape.
- Insert the Styrofoam box within the cardboard box (must fit tightly), close the cardboard box lid and seal with packing tape. Apply the tape to all seams of the box to help contain possible leaks

Attach address label to the top of the box and attach all necessary customs papers



Protocol Document

Shipping Adults

Source: https://zfin.org/zf_info/zfbook/chapt1/1.7.html#adults

Shipments should be timed to arrive as quickly as possible, avoiding weekend and holiday delays. International shipments should be sent out on Mondays. This allows time for the fish to wait in Customs.

Materials

- Styrofoam box nested inside a cardboard box. Must fit tightly so that Styrofoam box not able to rattle around
- Medium sized Plastic fish bags for shipping adult fish. These should hold approximately 3 litres of water
- Packing tape
- Labels: live fish stickers and Federal Express (or other courier) address labels.
- Styrofoam packing peanuts. Do not use dissolvable peanuts/packing material

Packing Adult Fish for Shipping

- Fill a medium fish bag 1/3 full with fresh fish water and add the fish. 5 fish per bag.
- Place labels on each bag with information including genotype, how many of each sex, DOF, etc.
- Hold the bag closed firstly by grasping at the top and then twisting. Keep the pressure in the bag so that it looks like a cushion. Check the bag at this point to see that it is 2/3 air, 1/3 water. Do not blow into the bag to add more air- open the bag and try to capture more. Gently insert oxygen pipe and fill with oxygen.
- Seal the bag by either knotting it or twisting the neck so that the twist doubles over and then secure with rubber bands tightly around the knot or tie securely. You want the bag to remain tight without air escaping while closing.
- Take the bottom points of the bag and tape them up along the sides of the bag, creating a square bottom. This prevents fish from getting caught and injured in the corners.
- Place the bag into another plastic bag, double bagging it. Line the bags up with each other (by their seams) so that they are in the same orientation. Close the outer bag by knotting and/or sealing with a rubber band.
- Place the bagged fish in the Styrofoam box inside the cardboard box and fill up any extra space with Styrofoam packing peanuts.
- Secure the Styrofoam box lid and seal around with packing tape
- Insert the Styrofoam box within the cardboard box (must fit tightly), close the cardboard box lid and seal with packing tape. Apply the tape to all seams of the box to help contain possible leaks

Attach address label to the top of the box and attach all necessary customs papers