AQUA-FAANG – Standard Operating Protocol **Total RNA preservation from turbot embryos using TRIzol**

## OVERVIEW

This protocol describes a simple method used to preserve total RNA from turbot embryos with minimal manipulation. The downline sample homogenization for RNA extraction was carried out with TissueLyser II (Cat. No. 85300) and 2 zirconia beads (2.8-3.3 mm) per tube, as described in protocol "Total RNA extraction for turbot eggs (DevMap)" by USC.

## EQUIPMENT & REAGENTS

- 2 ml safe-lock tube
- Pasteur pipette
- P1000 pipette + tips
- P200 pipette + tips
- TRIzol reagent (ThermoFisher 15596-026)

## WORKFLOW

1. Collect the desired number of eggs (50-100 eggs/tube) in a 2 ml safe-lock tube. Due to the floatability of turbot eggs, these can be collected with a Pasteur pipette from the surface of the tank water.
2. Using a P1000 pipette, dry out the tube by removing most of the water. Repeat the process with a P200 pipette.
3. Add 1 ml TRIzol reagent to the tube and mix well by hand.
4. Place the tubes in -80ºC freezer for long term storage.