



EMBRYO THAWING PROTOCOL

Material

Before beginning, make sure that all equipment is at hand so that steps 1 to 5 can be performed as rapidly as possible!

Thawing Media (0.5 M Sucrose)

- Sucrose 1.71 g
- M2 medium with Pen/Strep added to 10ml

Prepare freshly and filter through a 0.22 μm Millipore filter.

Thawing

- 1. Remove straw from liquid nitrogen using tweezers
- 2. Wait a few seconds for the liquid nitrogen to be expelled from the straw. Face the open end of the straw away from you at this time
- Rapidly immerse the end of the straw in a 37°C water bath so that the section containing cryoprotectant is completely submerged and leave for approx. 3 seconds. Cryoprotectant should remain clear.
- 4. Remove the straw and rapidly wipe dry with a Kimwipe
- 5. Cut off the heat-sealed end and expel the cryoprotectant solution into 3 ml of the 0.5M sucrose solution in a 6cm tissue culture dish
- 6. Incubate for 5 minutes at RT without shaking or mechanical disturbance.
- 7. Transfer embryos into a second dish with 3 ml M2 medium and incubate for 5 minutes at RT undisturbed.
- 8. Wash the embryos very gently through several droplets of M2.
- 9. Transfer the embryos into the oviduct of recipient mice using M2 as transfer media.