

Acidified Tyrodes Solution

Product No.:

1060

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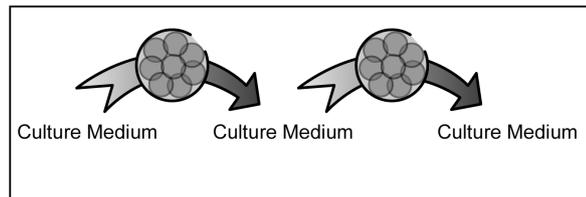
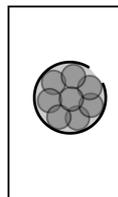
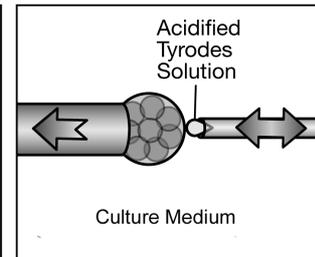
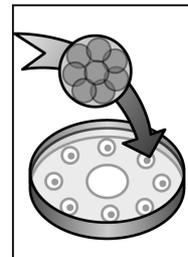
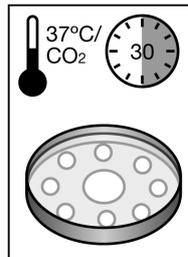
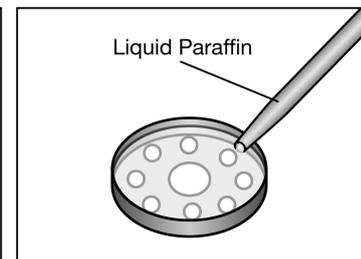
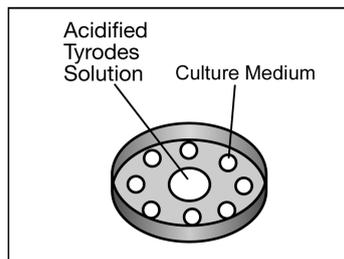
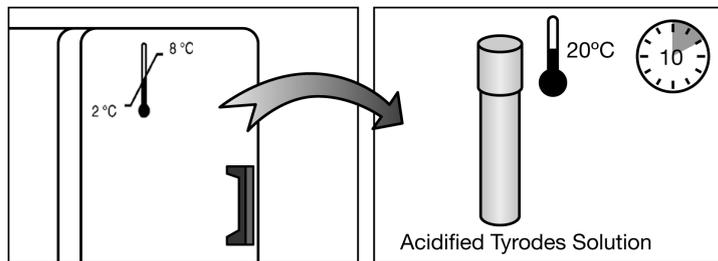
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Acidified Tyrodes Solution

Intended use

Acidified Tyrodes Solution is for chemical drilling of the zona pellucida to facilitate hatching or removal of blastomeres in conjunction with PGD (pre-implantation genetic diagnosis).

Composition

Polyvinylpyrrolidone
Glucose
Physiological salts

Quality control testing

Sterility tested (Ph.Eur., USP)
pH tested (Ph.Eur., USP)
Endotoxin tested ≤ 0.1 EU/mL

Note: The results of each batch are stated on a Certificate of Analysis, which is available on www.origio.com.

Storage instructions and stability

Store in original container at 2-8°C, protected from light.
Do not freeze.

Discard excess (unused) media following warming.

The product is provided in vials intended for single use.

When stored as directed by the manufacturer the product is stable until the expiration date shown on the vial label.

Precautions and warnings

Do not use the product if:

1. Product packaging appears damaged or if the seal is broken.
2. Expiry date has been exceeded.

Caution: US Federal law restricts this device to sale by or on the order of a physician (Rx only).

Instructions for use

1. Remove Acidified Tyrodes Solution from storage at 2-8°C and leave at room temperature for 10 minutes.
2. Prepare a petri dish with one microdrop of Acidified Tyrodes Solution and several droplets of pre-equilibrated preferred culture medium. Cover the dish with pre-equilibrated Liquid paraffin and place the dish in a CO₂ environment at 37°C for 30 minutes prior to use.
3. Place each embryo in a microdroplet of preferred culture medium.
4. Load the zona-drilling pipette with Acidified Tyrodes Solution and stabilise the fluid movement.
5. Clamp the embryo onto the holding pipette (syringe suction system) so that the micro needle filled with Acidified Tyrodes Solution is exposed at the 3 o'clock area, with the pipette just touching the zona, move the pipette back and forth slightly whilst slowly ejecting an extremely small amount of Acidified Tyrodes Solution. Suction is recommended at this point, to aspirate all of the expelled acid solution.

Note! *The total time to breach the zona should be in the order of 5-7 seconds.*

6. It is crucial to watch this procedure carefully in order not to hurt the blastomeres. The outer layer of the zona dissolves first and then the inner. In approximately half the cases the zona

pops open, whereas in the other half the zona may be widened mechanically by moving the microneedle through the opening in a tearing motion to achieve an even size hole (15-20 µm).

7. Immediately wash the embryo(s) thoroughly by transferring them between several droplets of preferred culture medium and finally place them in medium for embryo transfer. Subsequent handling of embryos should be gentle so as to reduce the risk of blastomere loss.