



0214-02

# Acidified Tyrodes Solution

## Product No.

1060

## Symbols:

Catalogue Number

REF

Batch Code

LOT

Sterilized using aseptic processing techniques (filtration)



Keep away from sunlight



Temperature limitation  
from 2°C to 8°C



Use by



Consult operating instructions



Do not re-use



## Technical Services:

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# MediCult

Innovation with Care

# Acidified Tyrodes Solution

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## 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 tested

**Note:** The results of each batch are stated on a Certificate of Analysis, which is available upon request.

## Storage instructions and stability

Store in original container at 2-8°C, protected from light.

Do not freeze.

The product is packaged in vials intended for single use.

Minimum shelf life is 16 weeks from the day of shipment out of Denmark.

## 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. Prepare a petri dish with one microdrop of Acidified Tyrodes Solution and several droplets of pre-equilibrated Sperm Preparation Medium (Product 1069/1070). Cover the dish with pre-equilibrated Liquid paraffin (Product 1010) and place the dish in a CO<sub>2</sub> environment at 37°C for 30 minutes prior to use.
2. Place each embryo in a microdroplet of Sperm Preparation Medium.
3. Load the zona-drilling pipette with Acidified Tyrodes Solution and stabilise the fluid movement.
4. 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.*
5. 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  $\mu\text{m}$ ).

6. Immediately wash the embryo(s) thoroughly by transferring them between several droplets of Sperm Preparation 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.

