Hyaluronidase Solution

Hyaluronidase Solution is a convenient, ready-to-use solution designed for removing cumulus cells surrounding freshly retrieved oocytes prior to ICSI or other ART procedures.

This solution consists of 80 IU/mL of Hyaluronidase enzyme in a HEPEs buffered HTF medium with therapeutic-grade human serum albumin (5mg/mL) and the antibiotic gentamicin sulfate (10µg/mL).

Irvine Scientific has performed extensive efficacy testing on Hyaluronidase Solution using freshly retrieved mouse oocytes and one-cell embryos.

The performance of Irvine Scientific's Hyaluronidase Solution was equivalent to control hyaluronidase solutions, and no toxicity was observed to mouse oocytes and embryos. The development of one-cell embryos to blastocysts was equivalent after exposure to Hyaluronidase Solution as compared to non-exposed controls (in growth medium only). The lot-to-lot performance of Hyaluronidase Solution was consistent for enzyme activity and the removal of cumulus cells from freshly retrieved oocytes within 2 minutes.

In addition to the mouse oocyte and embryo bioassays, Hyaluronidase Solution is also tested for enzyme activity using a standard enzymatic assay for Hyaluronidase. This permits verification of actual enzyme activity, in addition to the functional bioassay of cumulus cell removal and lack of toxicity.

Moreover, stability studies have been conducted to determine the enzymatic activity of Irvine Scientific's Hyaluronidase Solution after storage as recommended at refrigerated temperatures. The results (see Figure 4) show ≥95% of initial enzymatic activity (80 IU/mL) remains after 12 months storage at 2-8°C (refrigerated).

### Hyaluronidase Solution, Catalog #90101

- Available in kits of 5 x 1.0 mL.
- The shelf life is 12 months when stored sealed at the recommended temperature of 2-8°C.
- Gentamicin sulfate is included as the antibiotic.

### Features and Benefits

- Convenient ready-to-use solution for denuding oocytes of cumulus cells prior to ICSI or other ART procedures. Refer to product insert for detailed usage instructions.
- This solution contains HEPEs buffered HTF medium to maintain proper pH during cumulus cell removal at ambient atmosphere conditions.

### Enzyme Activity, Lot-to-Lot Comparison

- **Lot #1**
- **Lot #2**
- **Lot #3**

### Hyaluronidase Solution Stability (Refrigerated: 2-8° C)

- **Activity (% Remaining)**

### Oocyte Viability (Morphology at 24 hr)

- **Hyaluronidase Solution**
- **Control (Hyaluronidase)**

### Blastocyst Development (Log 10)

- **Lot #1**
- **Lot #2**
- **Lot #3**

### Each lot of Hyaluronidase receives a complete laboratory evaluation including mouse embryo testing, endotoxin level, pH, osmolality and sterility testing. All results are provided in a lot-specific Certificate of Analysis.

Irvine Scientific's commitment to excellence is demonstrated by our products' performance and adherence to the industry's highest quality standards. We were one of the first companies in the USA to receive ISO 13485:2003 quality systems certification, the new rigorous international quality assurance standard designed specifically for Medical Devices.

Always refer to product insert for complete instructions for use. For more information on all of our Reproductive Products, call 1 (800) 437 5706.