



ICSI Cumulase®

Human hyaluronidase for human oocytes

- Recombinant human hyaluronidase
- Maximum purity and safety - no animal derivatives
- Less stressful denudation



ICSI Cumulase

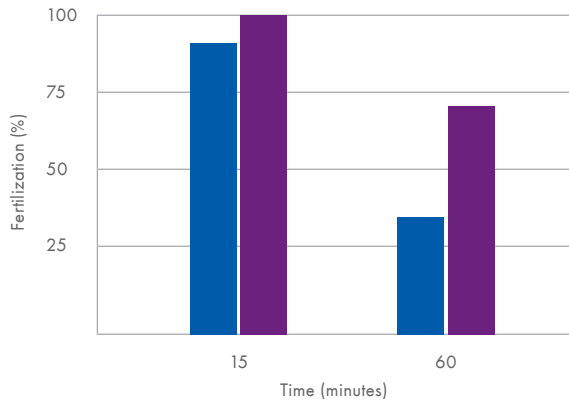
The highest standard for denudation

ICSI Cumulase facilitates the removal of the cumulus complex surrounding the oocyte prior to the ICSI procedure. Based on the recombinant human hyaluronidase enzyme rHuPH20, developed by Halozyme Therapeutics, ICSI Cumulase provides the safe and pure alternative to conventional hyaluronidases derived from animal testicular extracts.

ICSI Cumulase contains human serum albumin (HSA) to assist stability and performance of the active hyaluronidase enzyme.

Clinical documentation

- Taylor et al. (2005, 2006) reported significantly improved fertilization rates. In addition, improved embryo development and indications of improved embryo quality were observed.
- In a randomized, blinded study by Nagy et al. (2006) Cumulase showed significantly higher fertilization rates (81.1% vs. 64.4%) and embryo development when compared to bovine hyaluronidase.
- Recently, Evison et al. (2009) showed significantly increased fertilization rates and significantly decreased oocyte damage rates using Cumulase, while De Vos et al. (2008) did not find Cumulase to be inferior to animal derived hyaluronidase.



Behr et al., (2005) showed significantly higher fertilization rates in mouse oocytes after long time exposure (60 min) to Cumulase as compared to bovine hyaluronidase.

■ Bovine ■ Cumulase

Ordering Information

Product Code	Product Name	Volume
16125000	ICSI Cumulase	5 x 0.5 ml

Advantages with ICSI Cumulase

- Ready-to-use in single cycle vials
- Safer and more pure than other hyaluronidases
- Less stressful denudation
- Equally good or higher fertilization rate
- Improved embryo development
- Improved embryo quality

ICSI Cumulase

Recombinant human enzyme

Extremely high purity
> 99% pure

Not toxic to oocytes
- duration of the denudation not important

Human enzyme used for human oocytes - no risk of allergic reaction

No risk of animal disease transmission

Animal-derived products

Testicular extracts from animals

Low purity
Ovine typically < 15% pure
Bovine typically < 5% pure

Toxic to oocytes over time
- denudation time must be kept short

Animal enzyme used for human oocytes - risk of allergic reaction

Genuine risk of transmission

Quality control testing

- Sterility
- Osmolality
- pH
- Mouse Embryo Assay (MEA)

The results from each batch are stated on a Certificate of Analysis, which is available on coopersurgical.com

Cumulase® is a registered trademark of Halozyme Therapeutics Inc. ORIGIO is the exclusive distributor of Cumulase®.