

ICSI Cumulase®

Human hyaluronidase for human oocytes

- Exclusive distribution of recombinant human cumulase®
- Maximize purity and safety
- Human hyaluronidase for human oocytes



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ICSI Cumulase®

The new standard in 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.

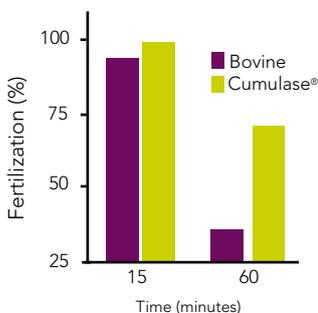
ICSI Cumulase® contains human serum albumin (HSA) to assist stability and performance of the active hyaluronidase enzyme.

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.

Contact

Please visit www.origio.com to find your local ORIGIO MediCult Media distributor or contact ORIGIO directly at the address listed below.

ICSI Cumulase®	Animal-derived products
Recombinant human enzyme	Testicular extracts from animals
Extremely high purity > 99% pure	Low purity Ovine typically < 15% pure Bovine typically < 5% pure
Not toxic to oocytes - duration of the denudation not important	Toxic to oocytes over time - denudation time must be kept short
Human enzyme used for human oocytes - no risk of allergic reaction	Animal enzyme used for human oocytes - risk of allergic reaction
No risk of animal disease transmission	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 www.origio.com.

Product No.

16125000 ICSI Cumulase® (5 x 0.5 ml)

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

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