

# PRIMXcell Ultra

BASIC MEDIUM



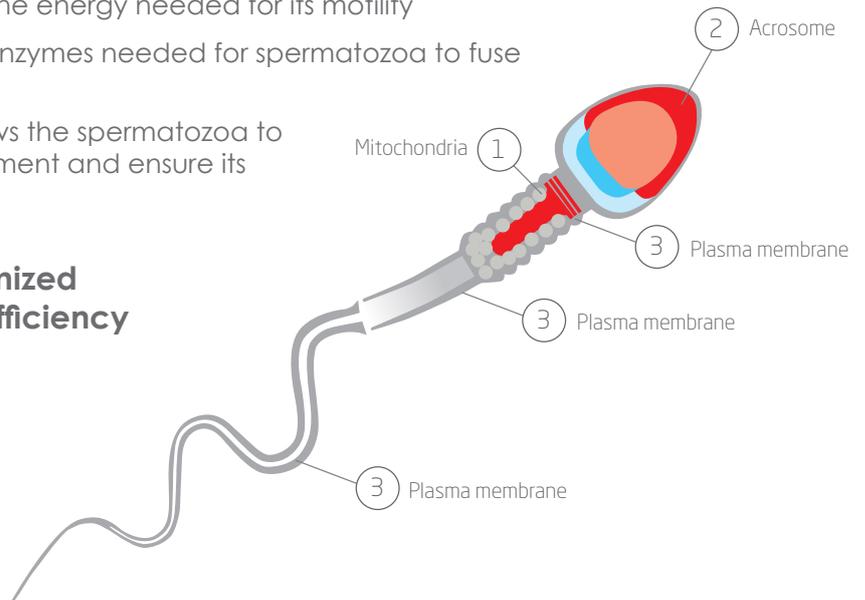
# PRIMXcell Ultra, optimizes sperm performance

Protecting semen between collection and insemination involves preserving the integrity of the spermatozoa.

IMV has developed additives that preserve the key organelles of spermatozoa:

- ① **the mitochondria**, which produce the energy needed for its motility
- ② **the acrosome**, which contain the enzymes needed for spermatozoa to fuse with the ovum.
- ③ **the plasma membrane**, which allows the spermatozoa to assimilate the nutrients in its environment and ensure its viability until it fuses with the ovum.

**PRIMXcell Ultra, with a new optimized formulation, offers remarkable efficiency in energy production.**

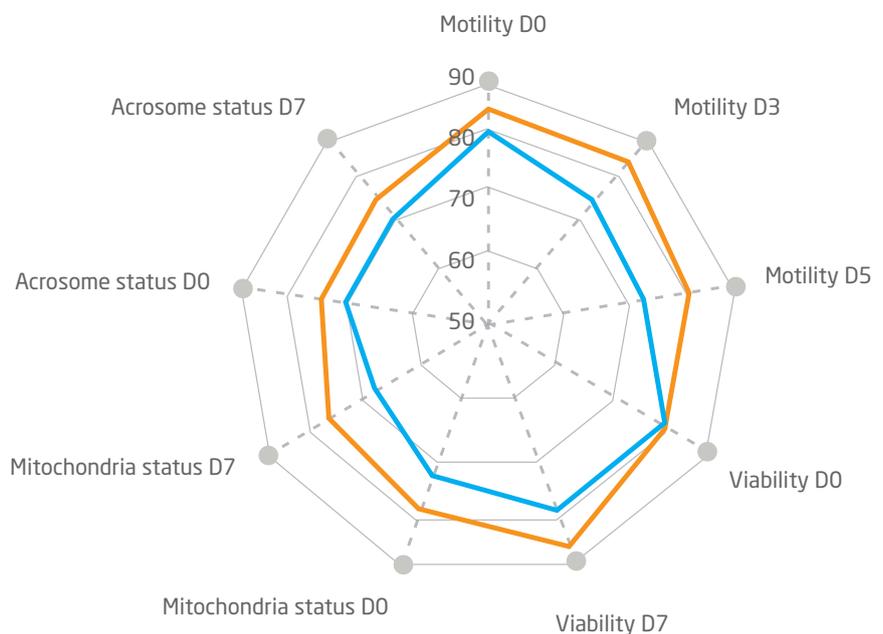


## PRIMXcell Ultra: improves motility

Tests show excellent results in the protection of the spermatozoa's various functions: motility, viability, and the integrity of sperm organelles including the mitochondria and the acrosome. A major advancement over the previous formulation...

**Performance in vitro**  
Material and method  
- 3 groups of 3 boars  
- Spermatozoa concentration: 30 M / mL  
- Storage at 17 °C

— PRIMXcell  
— PRIMXcell Ultra



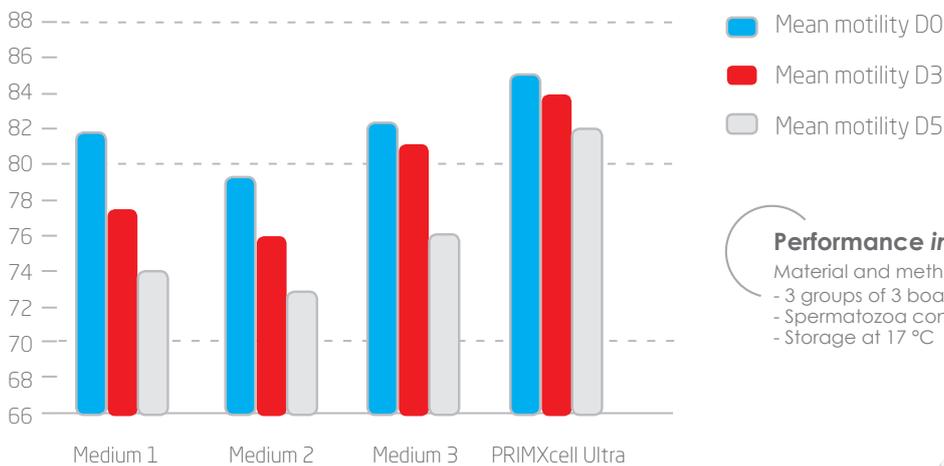
## Bioactivator Ultra: stimulates energy production

PRIMXcell Ultra now features Bioactivator Ultra, an additive developed by IMV for premium media.

Bioactivator Ultra is a biological compound that amplifies the biosynthesis of platelet-activating factors (PAFs). PAFs stimulate the motility of spermatozoa, promote ovum penetration, and ultimately improve fertility.



### % Motility



Comparison of sperm motility

### Performance *in vitro*

- Material and method
- 3 groups of 3 boars
  - Spermatozoa concentration: 30 M / mL
  - Storage at 17 °C

## PRIMXcell Ultra: a robust formula in the perfect packaging

The new PRIMXcell Ultra formula is anhydrous, meaning that it no longer contains any water molecules.

It has the best stability, which optimizes the powder's storage. The particle size of the various components has been studied in depth to make it easier for the powder to dissolve when preparing the media.

Finally, the new packaging is a bag made from a new generation of film that offers excellent protection against ambient humidity.



# Production and quality control

The IMV production center was designed and developed to meet and exceed quality assurance standards.

## Production in a controlled setting

Our media production laboratory is ISO 9001 certified. The center is equipped with an air filtration system and a class 100 laminar flow hood.

Temperature and humidity are regularly controlled to ensure that media are produced under the best possible conditions.

## Ongoing control of production

All of our components meet the standards of at least one pharmacopoeia system.

Each and every lot of end product is inspected based on its appearance, its packaging, and its physico-chemical properties.

*In vitro* testing and biocontamination analyses are also carried out on all of our lots.



# Product reference

## PRIMXcell Ultra

QSF 1L / sold by 100 - 028242  
QSF 5L / sold by 40 - 028243  
QSF 50L / sold by 4 - 028244  
QSF 100L / sold by 30 - 028245

