Article 1: INRA 96: a well-known semen media to preserve equine semen.



INRA 96 is a famous equine semen extender and preservation media in the equine industry manufactured by IMV Technologies in a facility working under ISO9001:2015. It is a sterile, ready-to-use medium that is formulated with milk micellar proteins. These proteins are highly protective to sperm cells and can maintain the fertility potential of equine semen for up to 48 hours. INRA 96 is known to work exceptionally well for the preservation of equine semen at 15 degrees Celsius and 4 degrees Celsius.

The formulation of INRA 96 contains antibiotics such as penicillin and gentamicin and a fungicide known as amphotericin B. These components provide effective protection against bacterial and fungal contamination during the storage and transport of equine semen. INRA96 is well recognized for its ability to preserve the ejaculates of even the most difficult stallions, making it a well-known choice for veterinarians, breeders, and stallion owners.

The use of INRA 96 is a crucial aspect of equine breeding programs, as it enables the transport of equine semen over long distances without compromising its quality. Additionally, it helps to ensure the availability of high-quality semen from valuable stallions, even when they are not present on the breeding farm. INRA 96 has become the leading equine semen extender and preservation media in the industry, and its effectiveness has been demonstrated in numerous studies and field trials.

In conclusion, INRA 96 is a reliable and effective equine semen extender and preservation media that is widely used in the equine industry. Its formulation with milk micellar proteins, antibiotics, and a fungicide provides excellent protection to equine semen during storage and transport. INRA 96 is well-recognized for its ability to maintain the fertility potential of equine semen for up to 48 hours, making it a crucial aspect of equine breeding programs. Its effectiveness has been proven in numerous studies and field trials, making it the leading choice for stallion owners, breeders, and veterinarians in the equine industry.



## Article 2 | Publications with proven results of INRA 96 efficiency

Barrier Battut et al, 2016 identified *in vitro* parameters that are correlated with the fertility of stallion semen. These included among other things progressive motility and straight line, viable sperm, and morphology.

Different studies compared INRA 96 efficiency with other stallion semen extenders. INRA 96 has consistently shown superior or at least equivalent performance to other extenders such as skimmed milk or homemade media.

Here is a list of different results you can read in those publications:

- Sperm progressive motility is significantly better in INRA 96 than in skimmed milk or homemade medium, and at least equivalent in casein based medium up to 48h to 72h of storage. (*Batellier et al, 2001 & LeFrapper et al, 2010 & Fedorka et al, 2014 & Rečková et al, 2022*)
- Sperm viability (or Sperm Intact Membrane) is significantly better in INRA 96 than in skimmed milk or homemade medium, and some casein based medium up to 48h of storage. (*Rečková et al*, 2022)
- Sperm cells morphology is better in INRA 96 and Casein-based medium than in skimmed milk based medium (*Rečková et al, 2022*)
- According to Rečková (2022), INRA96 is much better in sperm *in vitro* quality than skimmed milk based medium or homemade medium, and slightly better than the other casein based medium.

These results indicates that INRA 96 is an efficient solution for semen preservation in equine reproduction, as it helps maintain sperm quality and function during storage and transport, resulting in improved fertility outcomes compared to skimmed milk medium (*Batellier et al, 2001*)