MOLECULE 46 SEPARATION AND DIAGNOSTICS OF UNDAMAGED SPERM

Next generation fertility tech

According to the WHO, every sixth couple worldwide is affected by infertility, and in livestock production new approaches are being sought for the selection of the best breeding males and high-quality sperm. Molecule 46 has developed and patented a revolutionary technology for the separation and diagnostics of intact sperm, on the basis of which it is designing and certifying separation and diagnostic kits for humans, livestock, and endangered species. The advantage lies in the unique ability to separate sperm that would succeed in natural fertilization, making them suitable for use in assisted reproduction as well as cryopreservation. The technological solution emphasizes inclusivity, operational efficiency, and the ability to separate sperm according to three qualitative parameters: head integrity, DNA integrity, and motility.

Unique selling points:

- Separation selects sperm as an egg would in natural fertilization.
- Separation improves three sperm quality parameters.
- Separation does not cause mechanical damage to sperm.
- Separation isolates both motile and non-motile sperm.
- Sperm diagnostics detect head damage associated with infertility.

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B2B

www.molecule46.eu

Product

Next generation fertility tech: separation and diagnosis of intact sperm

Technology readiness

Development

Proof of concept

▶ Prototype

First implementation

Extensive implementation