halotech®
dna

dyn-halosperm®

Analysis of sperm DNA fragmentation dynamics

The only available kit to study sperm DNA fragmentation over time

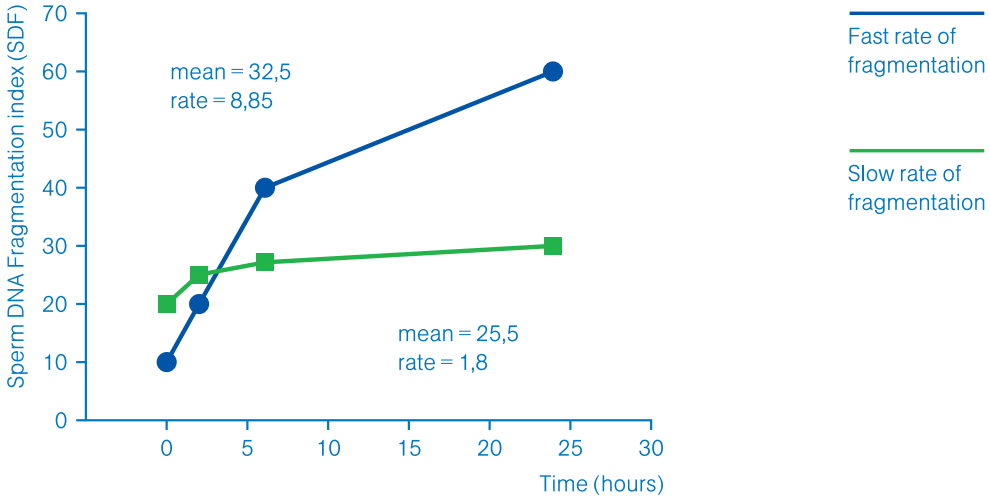
product

Dyn-Halosperm® distinguishes between fragmented and non-fragmented DNA in sperm cells and allows the calculation of the Sperm DNA Fragmentation index (SDF), i.e. the percentage of spermatozoa with fragmented DNA. In addition, using the Dyn-Halosperm® kit it is possible to study sperm DNA fragmentation over four different time points.

Sperm DNA fragmentation is related to fertilization rate[1], embryo quality[1], embryo development and male pathologies (such as varicocele[2] or infections by *Chlamydia trachomatis*[3]).

Each individual has a unique dynamic profile of sperm DNA fragmentation[4].

Sperm DNA Fragmentation index (SDF):



information provided by Dyn-Halosperm®

The Dyn-Halosperm® protocol provides the following information about DNA fragmentation for a given semen sample:

1. Basal fragmentation level.

2. Rate of change.

3. Mean.

clinical applications based on basal fragmentation and rate of change

Knowing the evolution of sperm DNA fragmentation over time allows clinicians to:

1. Select the optimum moment to carry out an ART cycle.

2. Select the type of assisted reproduction technique: if the rate of DNA fragmentation is high then it is advisable to use techniques that assure a quick fertilization of the oocyte.

3. Assess the quality of semen samples or donors for suitability.

4. Provide answers to cases of unexplained infertility, ART failure or repeated abortions.

contact information

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