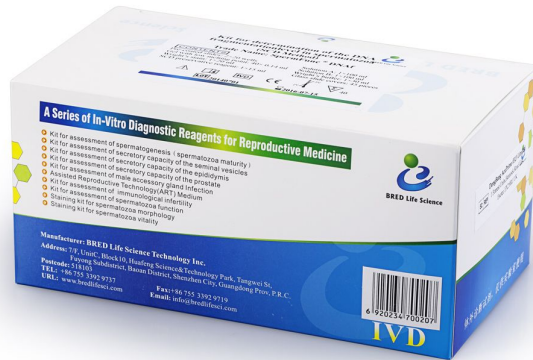




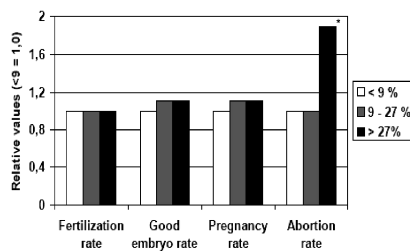
BRED Life Science

SpermFunc® DNaf - Kit for Determination of the DNA Fragmentation Level in Spermatozoa (Sperm Chromatin Dispersion Method)

It was reported that the rate of abortion caused by sperm DNA fragmentation was higher than other factors in the process of IVF or ICSI treatment.

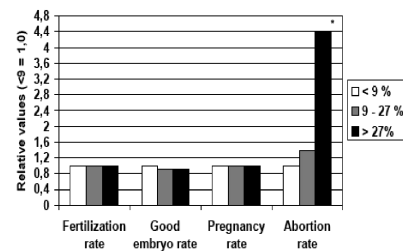


DNA fragmentation index and IVF



Adapted from Lin MH et al. 2008

DNA fragmentation index ICSI



Adapted from Lin MH et al. 2008

Studies have shown that sperm DNA fragmentation may result from the aberrant assembly of chromosome and excessive production of reactive oxygen species (ROS) or pathological apoptosis. Fertilization by fragmented -DNA sperm may cause sterility, habitual abortion and lower pregnancy rate in Assisted Reproductive Technology (ART) treatment.

The sketch map of the testing results of SpermFunc® DNaf

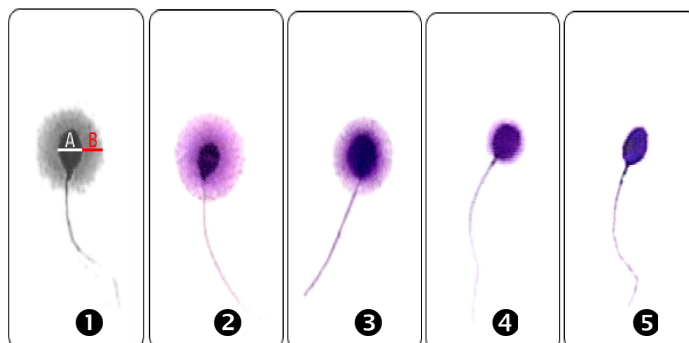
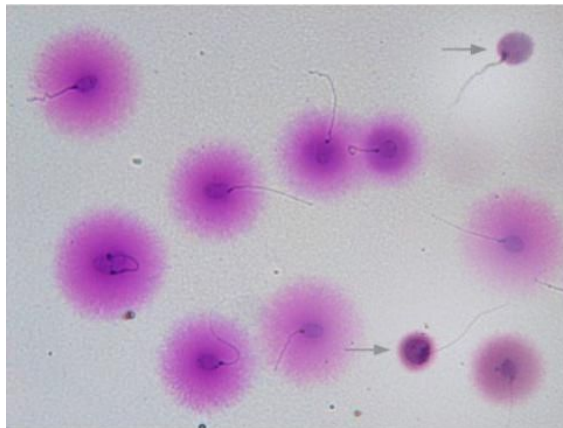


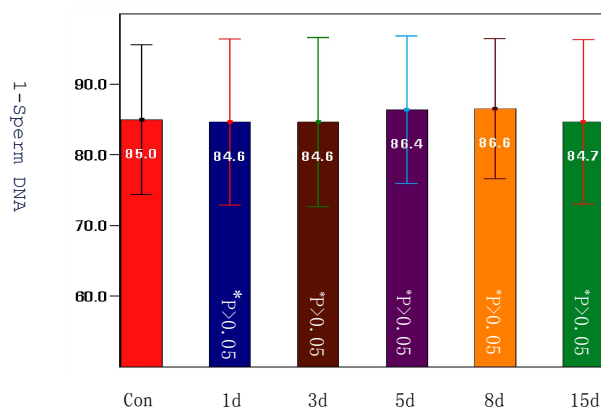
Fig ① is the sketch map of determination in sperm DNA fragmentation. A represents the smallest diameter of sperm head. B represents the thickness of unilateral sperm halo. Generally, $B \leq 1/3 A$ indicates that DNA is fragmented in sperm. Fig ② ③ represent sperms without fragmented DNA. Fig ④ ⑤ represent sperms with fragmented DNA.



The Pre-coated slides with thicker gel coat are good for sperm chromatin dispersion, improving the sensitivity.

Features:

- Using the optimizational method, the results of testing are more specific, and have the distinct configuration of sperm tail, easy to identify.
- Various appliances outfitted in the kit, easy to operate.
- Quick operating within one hour, the result is observed under the ordinary microscope without any other special instrument, easy to apply in clinic.
- 40T/Kit. Economical price but more efficient than the competitive products in the market.
- Made by the special advanced technics, the reagents are stable and reliable with a shelf life of two years.
- The unique preservable technology for specimen makes it possible that the specimen stored for at least 15 days, which can reproduce results as the fresh one. It is great for testing in batch in clinic.
- CE approved



The integrity transformation of sperm DNA fragmentation stored in SpermFunc® DNAf preservative fluid (n = 10)