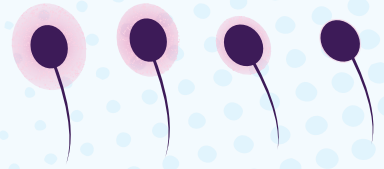


CANfrag

Sperm DNA fragmentation detection kit

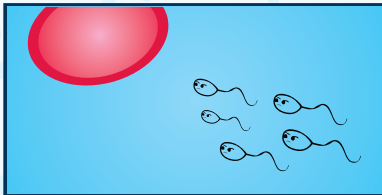


Sperm DNA fragmentation

DFI (DNA Fragmentation Index) is the ratio expressed as percentage of sperm having fragmented DNA to the total sperm count. DNA fragmentation in sperm may be a cause of male infertility which cannot be detected by routine semen parameters like sperm concentration, motility analysis and morphology assessment.

Some of the causes of sperm DNA fragmentation

- High level of ROS
- Advanced age
- Elevated scrotal temperature
- Exposure to harmful toxins
- Varicocele
- Febrile illness
- Gonadotoxins (e.g. cancer therapy)



The consequences of DNA fragmentation

- Infertility
- Multiple failure of IVF/ICSI
- Poor blastocyst development
- Repeated miscarriage in partner

Advantages of the kit

- Raw/ washed /fresh/ frozen samples can be analyzed
- User friendly
- Easily interpretable
- Require minimum time period for process
- Can be performed using simple lab instruments
- Reliable and reproducible
- Minimum processing time



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