

CANros

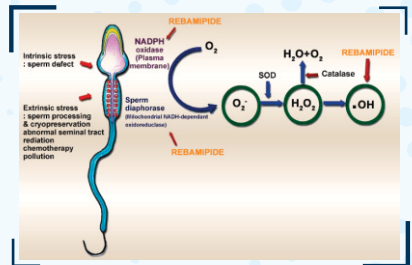
Kit to determine Reactive Oxygen Species in human semen

What is reactive oxygen species (ROS):

ROS are reactive molecules containing oxygen. They are produced as byproduct of the normal metabolism of oxygen. They play important roles in cell signaling and homeostasis, however higher level of ROS cause significant damage to cell structure. Collectively this is known as oxidative stress.

Some of the causes of oxidative stress:

- Extensive exercise
- Exposure to
 - Microbial infections
 - Pollutant like cigarette smoke, alcohol, UV radiation, chemical exposure etc.
- Aging



Effect of Oxidative stress on human sperm:

- DNA fragmentation in sperm, affects fertility of the man

Corrective measures:

- Antioxidant therapy
- IUI, IVF, ICSI using density gradient semen wash

Advantages of the kit:

- Easy to perform
- Analysis from core semen sample
- Easy to interpret
- Reliable and reproducible



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