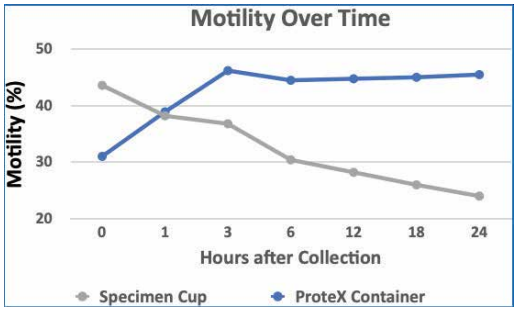
ProteX PROVEN TO PROTECT

PROTECTS SPERM DURING COLLECTION BY PREVENTING EXPOSURE TO

HARMFUL EXTERNAL ELEMENTS THAT CAUSE DAMAGING CELLULAR STRESS

Limit Oxidative Stress Induced By

- Drastic temperature changes lead to hyperactivating cell metabolism and CO^2 generation[1, 4, 5]
- Over exposure to oxygen in air (21%), VOC's, sunlight[25]
- Dehydration of sample and changes in osmolarity leading to pH shift[10]



Reducing Excessive Reactive Oxidative Species (ROS) Produced[17]

- Exposure to air through reduction of surface area and O^2 diffusion[26]
- Managing ROS with added media, i.e. Leukocyte generated
- Limiting CO^2 by maintaining normal cell metabolism[1, 4, 5]
- Hyperactivation – revving up mitochondria[1, 4, 5]

Reduces Potential Damage to Spermatozoa Cells

- DNA damage[15]
- Membrane damage related to remodeling and exposure to excessive ROS[23, 24]
- Mitochondrial burnout[16]
- Apoptosis[13]

Well volume 5mL, 2.3cm high
Surface area 4.7cm²

ProteX Design Difference:

- Surface area – 75% smaller
- Surface area to vol ratio .94
- Reduces diffusion – column of liquid 5X higher
- Safe-seal – avoid liquid sample dispersion in any orientation
- Concentrates the sample, easier to retrieve for ICSI

REPRODUCTIVE SOLUTIONS

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