

NATURE'S PRINCIPLES. PROVEN SUCCESS.

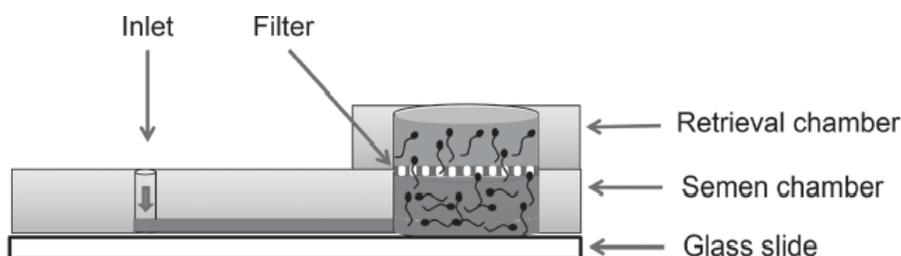
Understanding ZyMöt™ Sperm Separation Devices

Better Sperm Selection by Mimicking Nature

DxNow has developed novel devices for use in ART procedures conducted by fertility clinics and OB/GYN practices. ZyMöt Multi Sperm Separation Devices prepare motile sperm from semen for use in IUI and ICSI procedures. These FDA-cleared, CE-certified devices are the first of their kind and available worldwide.

Our revolutionary tools simulate the natural barriers of the cervical and uterine pathway that sperm must overcome to fertilize an egg. We enable separation of optimally functional sperm without the use of damaging chemicals or density gradient centrifugation (DGC).

ZyMöt Multi



The ZyMöt Multi is available in two processing volumes, 850 μ L and 3mL. A sample is applied through the device's inlet port, connected to a lower sample chamber. This chamber is separated from an upper collection chamber by an 8 μ m microporous filter. Filter size was determined after comparison between 3 μ m, 5 μ m and 8 μ m pore sizes. Incubation times of 15, 30 and 45 minutes were evaluated, with sperm saturation achieved at 30 minutes.¹ These parameters yielded optimal sperm collection efficiency and motility, with the 8 μ m pore demonstrating the highest degree of normal morphology.²

During sample incubation, the most motile and genomically competent sperm migrate upward through the filter, leaving less motile sperm behind. Separated sperm are then collected from the upper chamber for subsequent use in IUI or ICSI procedures. **No centrifugation is required.**

Simplifying and Standardizing Workflow

Easy to adopt and simple to use, ZyMöt Multi Sperm Separation Devices provide considerable time savings and standardization over traditional methods. ZyMöt devices avoid damaging DGC and preserve normal sperm morphology, significantly reducing DNA fragmentation and reactive oxygen species (ROS) production. Contact us for more information about how to evaluate ZyMöt Devices in your clinic. We offer comprehensive support with experts who are ready to help you incorporate our tools into your practice and extend your success. [Learn more at zymotfertility.com.](http://zymotfertility.com)

References

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2. Asghar, W., Velasco, V., Kingsley, J. L., Shoukat, M. S., Shafiee, H., Anchan, R. M., Mutter, G. L., Tüzel, E. and Demirci, U. (2014), Selection of Functional Human Sperm with Higher DNA Integrity and Fewer Reactive Oxygen Species. *Adv. Healthcare Mater.*, 3: 1671-1679. doi:[10.1002/adhm.201400058](https://doi.org/10.1002/adhm.201400058)