PICSI® Dish
Sperm selection for ICSI – based on Hyaluronic acid binding

• Significantly reduces pregnancy loss rate

• Binds only mature sperm with high DNA integrity

• Correlates with maturity, strict morphology and reduced chromosomal aneuploidies

• Clinically proven to benefit ICSI patients with low Hyaluronan Binding score (HBA® score)
PICSI® Dish

Significantly reduces pregnancy Loss Rate

PICSI® dish is indicated for the selection of mature sperm for ICSI.

Early pregnancy loss can result from selecting a compromised spermatozoa during ICSI. This can be due to the fact that visual selection alone cannot identify mature spermatozoa with high DNA integrity and reduced chromosomal aneuploidies. Hyaluronic acid (HA)-sperm selection can.

Facts on Hyaluronan (Hyaluronic acid -HA):

- Hyaluronan is the major component of the Cumulus Complex surrounding the human oocyte
- A sperm’s ability to bind to HA is a biochemical marker of the sperm’s maturity and DNA integrity
- Only mature spermatozoa with developed receptors for HA can bind

The PICSI® dish contains 3 microdots of Hyaluronic acid, where mature spermatozoa will bind for easy picking.

The ability to bind to HA correlates to:

- Maturity
- Strict morphology
- High DNA integrity
- Reduced chromosomal aneuploidies

In an extensive study by Worrilow et al. (2012), it was found that the combination of the diagnostic abilities of the Hyaluronic Binding Assay (HBA®) and the HA-sperm selection in the PICSI® dish led to improved clinical Pregnancy Rate (CPL) and significantly reduced Pregnancy Loss Rate in ICSI patients diagnosed to have low HA-binding ability (HBA® score ≤65%). This study further demonstrated that 15% of all ICSI patients express sperm samples with compromised developments (HBA® score ≤65%) and would benefit from HA sperm selection.

Clinical documentation

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Unbound, Motile Sperm

Bound, Motile Sperm

Statistical significance(*) is indicated at P<0.05

References


Yagci et al. (2010) Spermatozoa bound to solid state hyaluronic acid show chromatin structure with high DNA chain integrity: An acridine orange fluorescence study. J Androl; 31:566-572

Catalogue No.  
BCT-PICSI-20  20 PICSI® dishes,  
individually packaged, sterile

Find more information on www.origio.com 
A demonstration video as well as the instructions for use are available on our website. You can also find out who your local ORIGIO distributor is.