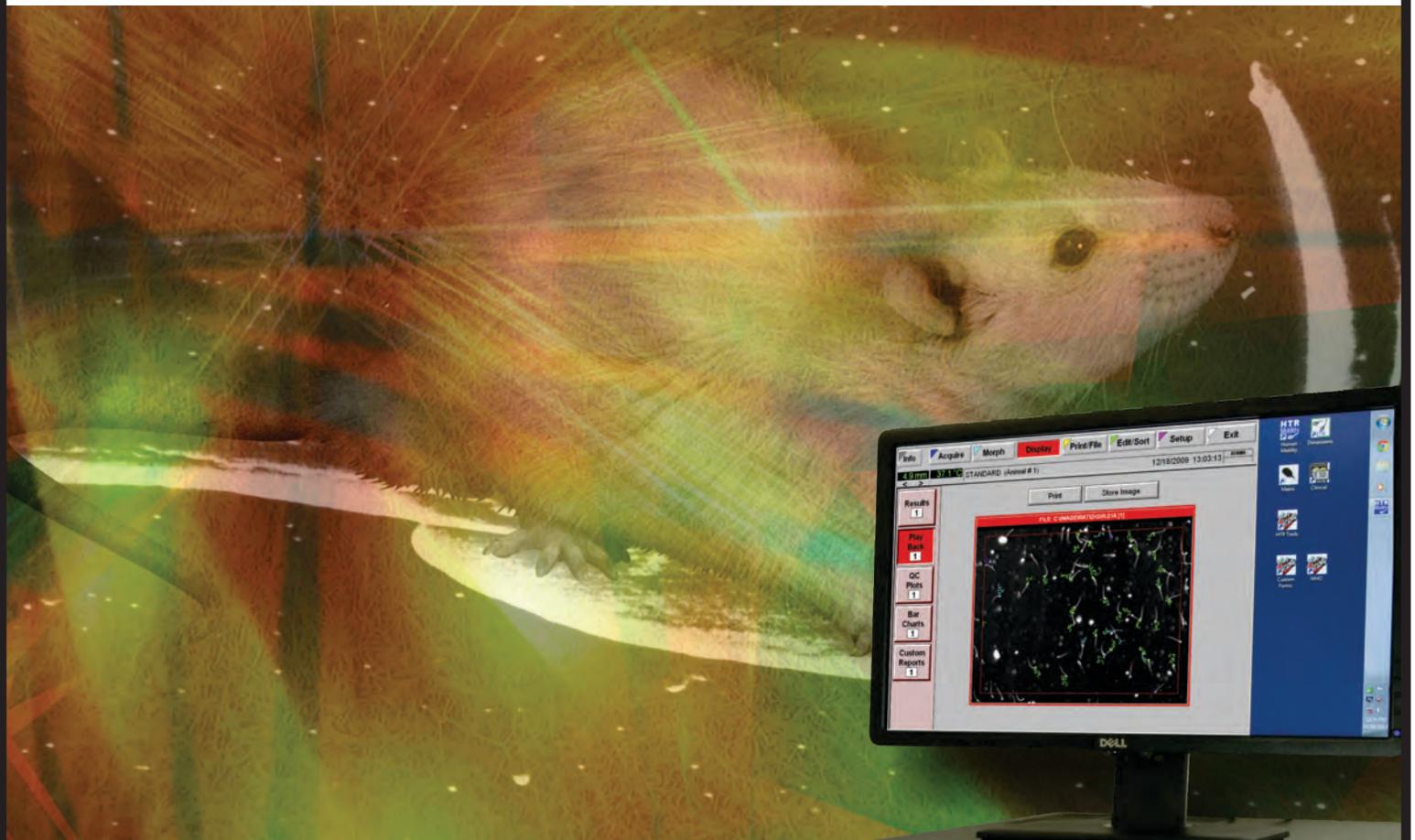


21 CFR Part II Compliant

TOX IVOS[®] II

Sperm Analyzer



**Fast and Accurate
Sperm Motility,
Counts and Viability***

Rat, Mouse, Rabbit & More

* Mouse and rabbit sperm only. Viability for rat sperm analysis under development.



Efficient and Precise Cauda Homogenate Sperm Counts

"Overall the data indicate good agreement between the HTM-IDENT and the hemacytometer counts. Furthermore, both counting time and technician fatigue were markedly reduced. Thus the HTM-IDENT option improves the efficiency of epididymal sperm counting without loss of precision."

Lillian Strader, et. al. Comparison of Rat Epididymal Sperm Counts by IVOS HTM-IDENT and Hemacytometer. *Reprod Toxicol.* 1996;10:529-533.

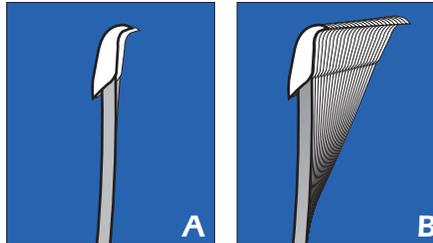
Motility under Strobed Fluorescence for High Accuracy

"In conclusion, with the short exposure of sperm due to strobelight illumination, useful concentrations of Hoeschst 33342 with little or no harmful effect on sperm motility or other variables was found. The dye can be used with fresh semen and it is especially useful in semen containing particulate material initially or after egg yolk and other protectants are added."

Paul Farrell, Robert Foote, Michael Zinaman. Motility and Other Characteristics of Human Sperm can be Measured by Computer-Assisted Sperm Analysis with Hoechst

Strobed Phase Illumination

Designed with an integrated, internal optical system, the TOX IVOS is the only sperm analyzer which uses illumination strobed at 1/1000 second to analyze sperm motion. This means that errors due to motion-related blurring, which may occur using standard phase illumination, are eliminated.



Comparison of motion-related blurring under strobed illumination (A) and standard phase illumination (B)

Strobed Fluorescence - IDENT

Every TOX IVOS includes the IDENT fluorescent illumination system for total sperm counts in cauda homogenate and motility analysis of debris-laden ejaculates.

The unique strobed xenon fluorescent illumination allows motility of analysis of stained sperm without adverse affects on motility as occurs with mercury fluorescent illumination.

Easy Viability with VIADENT

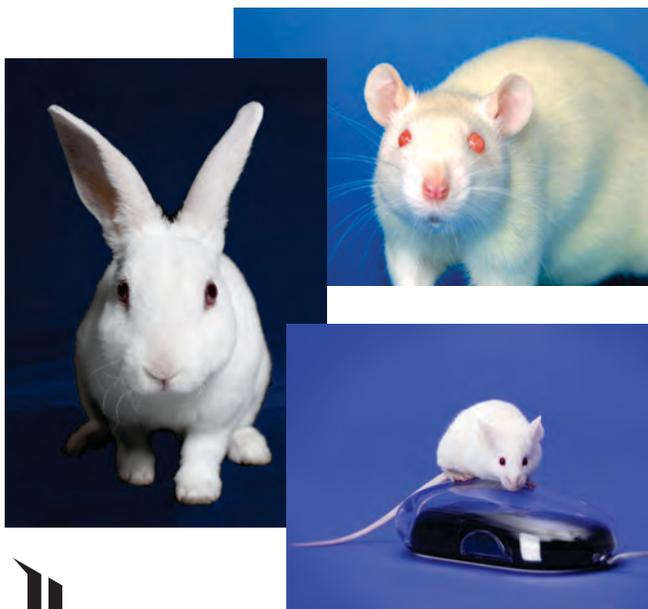
VIADENT allows determination of motility, count and viability using the SAME LIVE sample, unlike other systems which require viability to be performed on a non-motile sample.

The VIADENT stain only penetrates non-viable sperm heads. By comparing the cells visible under standard and fluorescent illumination, the analyzer easily determines the live cells versus the dead cells.

Rat Sperm: The TOX IVOS is the only CASA system with customized analysis algorithms to take into account the unique shape of the rat sperm head.

Rabbit Sperm: Using the IDENT fluorescent option for motility analysis of rabbit sperm, particulate material is eliminated from the analysis for highest level of accuracy without effecting the motility of the sperm.

Mouse Sperm: With the introduction of our new 4x fluorescent objective, mouse sperm motility and viability analysis is now possible on the same, live sample.



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Call or write today for more information or to arrange an on-site demonstration!