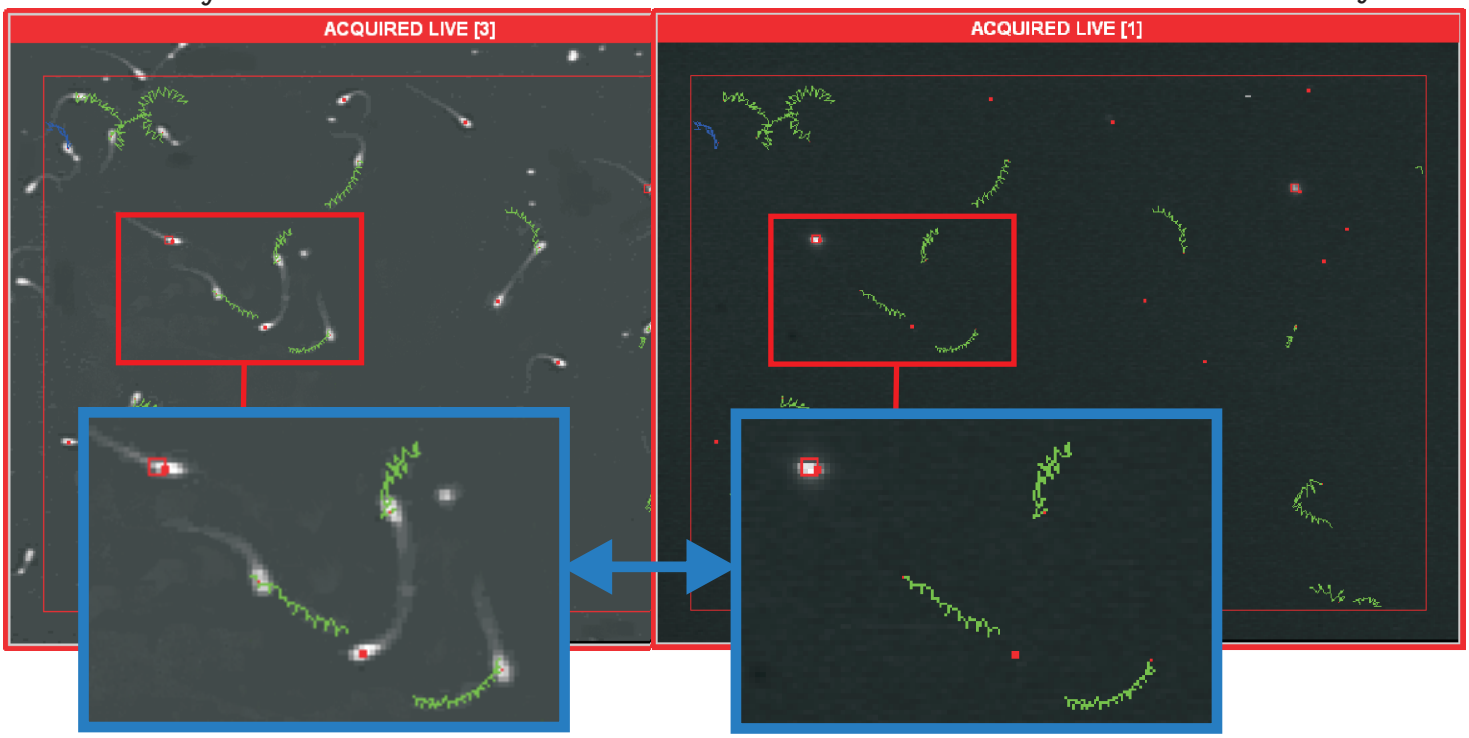
HAMILTON THORNE BIOSCIENCES

VIADENT

For Counts, Motility, and Viability from a Single Motile Sample!

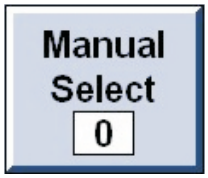
Visible Playback **Fluorescent Playback**



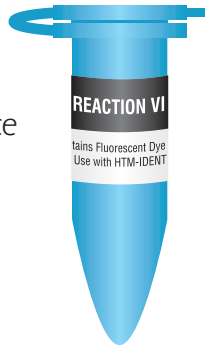
Non-viable (dead) Sperm Motile Sperm Non-motile Sperm (live & dead)

Why Choose VIADENT

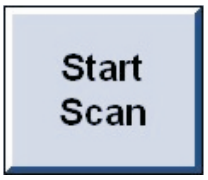
- Only VIADENT uses the **same MOTILE sample for counts, motility, and viability**. Using other viability options, two separate samples must be analyzed for motility, counts, and viability.
- VIADENT only uses one stain, and staining is complete within 2 minutes. Other methods require 2 to 3 separate stains, and much longer staining times.
- VIADENT is compatible with clear, milk-based, and egg-yolk extenders. However, use of phosphate-buffered solutions may interfere with other viability stains, such as SYBR 14.
- Low cost per test. Each VIADENT stain tube provides enough stain for 5 samples, and may be refrigerated after reconstitution for up to 3 months.
- Future applications under development.



Easy Sample Preparation



Simply stain an aliquot of the sample with the pre-packaged VIADENT stain for 2 minutes, load into the disposable analysis chamber, and place on the IVOS or UltiMate stage. You are now ready to begin analysis!



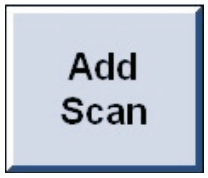
The Analysis Process

1) Select the analysis fields either automatically or manually.

2) Press Start Scan. Using standard visible illumination, the system analyzes count, concentration, motility, and velocity.

3) Select Playback to confirm capture.

4) Activate the VIADENT illumination, and press ADD SCAN. The analyzer will automatically scan the identical fields under fluorescent illumination to detect non-viable sperm.



5) The analysis results are immediately displayed, and show the number, concentration, and percent **Viable** cells, in addition to the Total, Motile, and Progressive values. You also get the quality assurance of overlaying Playback of both runs so you can "see" the results.

COUNT SUMMARY

LEJA

Category	Cells Counted	Sample (Billion)	Concentration (Billion/ml)	Percent
Total	225	131.95	0.660	100
Motile	122	71.55	0.358	54
Progressive	83	48.68	0.243	37
Viable	187	109.67	0.548	83

How it Works

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.

The 'visible' Playback screen (see image on reverse) shows all the sperm cells in a single field. The 'fluorescent' Playback screen shows only the dead cells. These non-viable cells are identified by a red square on both screens. Green tracks indicate motile sperm, and red dots indicate non-motile sperm (both live and dead).

Note: VIADENT is available only on IVOS, TOX IVOS, and UltiMate systems with the IDENT fluorescent option installed.

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