

Improve your performance thanks to a better quality control



EasyCyte[®], the performance
of the flow cytometer analysis now available to AI centers

EasyCyte[®] Plus
ref 021633

Results: better understand
the physiology of semen
to better manage
your semen production and sires

Innovation : cutting-edge
diagnostics laboratory technology
adapted to the needs
of semen production center

Quality : several discriminating
diagnostics tests (bacteriological assay,
mitochondrial potential, capacitation,
viability, acrosome integrity, DNA fragmentation...)

Simple : lowest reagent volume,
simple and user-friendly interface

Fast : Results in minutes,
when you want it, when you need it ! In your lab !



For additional information on the EasyCyte[®], contact Dr Misha Savic at: misha.savic@imv-technologies.com

WORLD LEADER IN REPRODUCTION BIOTECHNOLOGIES



Phone +33 233 346 464 - Fax +33 233 341 198 - www.imv-technologies.com

THE PERFORMANCE OF THE FLOW CYTOMETER ANALYSIS

NOW AVAILABLE TO AI CENTERS

You want to:

- ❑ Positively discard a semen ejaculate whose quality is not good enough to market
- ❑ Certify the quality of a semen ejaculate
- ❑ Improve the management and productivity of your sires

In a few minutes, simply and unequivocally, the following tests will inform the production center about the quality of the semen produced as well as its sires.

❑ 1. BACTERIOLOGICAL CONTROL

A large concentration of bacteria is very negative to the quality of the semen dose. It is furthermore representative of a problem with the sire. With this test, EasyCyte[®] allows you, ultra-rapidly, objectively and reproducibly to count the number of bacteria per sample.

❑ 2. VIABILITY

The membrane permeability is an index of the cellular viability. With this test, EasyCyte[®] shows this membrane integrity.

❑ 3. MITOPOTENTIAL

To swim towards the ovocyte, the sperm needs energy which is produced by the mitochondria. With this test, EasyCyte[®] shows the integrity of the mitochondrion.

❑ 4. CAPACITATION

Capacitation is the preparedness of the sperm to interact with the ovocyte.

This maturation process which starts at the moment of the ejaculate and ends in the female genital tract is coupled with a calcium intake in the head of the sperm. With this test, EasyCyte[®] measures the calcium level.

❑ 5. DNA FRAGMENTATION (SPERM CHROMATIN STRUCTURE ASSAY)

If the genetic capital of the sperm has lost its integrity, the quality and development of the embryo to come is threatened. With this test, EasyCyte[®] evaluates the quality of the sperm chromatin.

These tests are particularly adapted to analyze bovine, swine, equine or poultry semen.

In a few words, flow cytometry, a relatively new cutting-edge technology, allows to study multiple aspects of the physiology of a cell.

Due to the size and the cost of this type of equipment, this technology was for a long time reserved to a few biology researchers before it was routinely used in diagnostics/laboratories, particularly for the serotyping of the aids virus.

To date, numerous scientific publications have used flow cytometry in order to better understand the sperm physiology and the correlation of some measurable physiological characteristics regarding the potential of the sperm to fecundate.

Guava Technologies is a leading company in the design and production of a new type of flow cytometers : - compact and light, the units are easily transportable. They are particularly economical thanks to a breakthrough technology requiring only a very low sample volumes to analyze and therefore reagents. (vacuum of fluids through a capillary).

IMV Technologies, the world leader in assisted reproductive technologies has collaborated with Guava Technologies to develop tests specifically designed to the needs of the semen processing laboratories.

IMV Technologies proposes 2 versions of flow cytometers:

EASycyte PLUS :

- Dimensions : LxdxH = 16 in x 22 in x 13 "
- Weight : 71 lbs (excluding laptop)
- Analysis in 96 well plates or tubes
- 3 filters

EASycyte MINI :

- Dimensions : 15 in x 18 in x 9 "
- Weight : 50 lbs (excluding laptop)
- Analysis with tubes
- 3 filters

