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Cryogenetics aims at delivering innovative technologies and services, bringing fish reproduction to a new level.

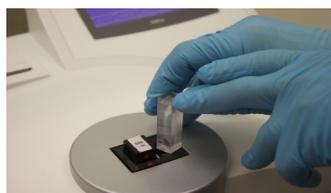


SUCCESSFUL INTRODUCTION OF THE SDM6 PHOTOMETER FOR ATLANTIC SALMON MILT DENSITY MEASUREMENT

8 out of the 9 salmon egg producers in Norway, including the largest egg producer in Scotland, the largest egg producer in Canada, and two of the leading egg producers in Chile, all implemented the SDM6 Photometer for precise measurement of milt density in 2013.

This is an important tool to standardize the sperm to egg ratio and thus optimize the use of male broodfish. Cryogenetics believes it is possible for most hatcheries to reduce the required number of males by 50%.

In 2014 the SDM6 will, in addition to Atlantic salmon, be set up for: rainbow trout, brown trout, Chinook salmon, sablefish, and Arctic char. Over the next 3 years Cryogenetics will expand the system for the 25 most commonly used fish species.



The SDM6 Photometer gives a precise measurement of milt density

THE NEXT LEVEL; SEMI-AUTOMATIC HANDLING SYSTEM FOR FISH MILT

In the fall of 2014, Cryogenetics will introduce a semi-automatic handling system for fish milt.

This system will be based on use of the SDM6 Photometer, and AquaBoost™ dilutor will be added automatically through the use of a dispenser pump.

The Minitube based IDA software will manage the process and create management reports for stock and quality control.

AQUABOOST™ PRODUCTS FOR OPTIMIZED FERTILIZATION RESULTS

The AquaBoost™ product series supports optimal fertilization results:

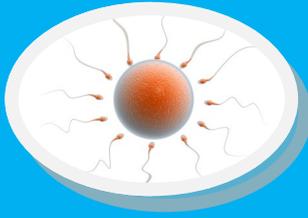
AquaBoost™ Dilutor is used to standardize the sperm to egg ratio and adds volume to better distribute the sperm cells to cover all eggs.

AquaBoost™ Extender is used for extended storage of fresh milt from 4 days to 16 days.

AquaBoost™ Activator replaces ovarian fluid and boosts the energy of sperm cells and is necessary to use when fertilizing with cryopreserved milt or milt that has been stored with AquaBoost™ Extender.



AquaBoost™ for optimized fertilization results



“...4,000 eggs per SquarePack® gives stable and satisfying fertility results.”

MORE EFFECTIVE FERTILIZATION WITH CRYOPRESERVED MILT

During 2013, Cryogenetics preserved enough Atlantic salmon milt in the SquarePack® system to fertilize **100 million salmon eggs**.

Large-scale use of the SquarePack® in multiple countries over the past years has demonstrated that 4,000 eggs per SquarePack® gives stable and satisfying fertility results.

NEW US LAB OPENS JANUARY 30th

After a period of detailed planning, Cryogenetics is opening its new U.S. facility in the Boston, MA area on January 30th.

The lab is the most complex facility so far due to its capacity for hosting live zebrafish prior to milt extraction. The design of the lab is such that milt from multiple fish species can be cryopreserved and safely stored with a high focus on biosecurity.

Cryogenetics is expecting to perform cryopreservation of fish milt from the U.S. East Coast to back up genetic lines from zebrafish strains used by leading Universities and Research Institutions in pursuit of novel development for human therapeutics.

The unit will also have the capability to development products and services towards other commonly used U.S. fish species.



Cryogenetics Inc. opens in Boston, MA January 30th 2014.

NEW STRAWS FOR USE ON SMALL MILT VOLUMES

Smaller fish, like zebrafish and ornamental fish types, carry microscopic volumes of sperm, sometimes less than 1 microliter.

To effectively handle these small volumes, Cryogenetics has invented a new type of straw, giving the possibility for efficient cryopreservation and high fertilization rates. The new straw will be the standard storage container for zebrafish milt at the facility in Boston.

One of the advantages of the straw is the ability to print a unique ID on each straw during the production process. Additionally, the straw can be sealed at both ends, providing a high level of sample biosecurity.

GOOD SUCCESS FOR CRYOPRESERVATION OF MILT BASED ON GONAD EXTRACTION

In various production systems, using milt from “all female” fish is preferred. Cryogenetics has performed multiple cryopreservation and fertilization tests using total gonad extraction to prove the effectiveness of this method. For both Atlantic salmon and trout, the use of cryopreserved “all female” provides fertilization results similar to the use of standard stripped milt.

CRYOGENETICS IS ASSISTING ITALIAN REGIONAL GOVERNMENT TO BACK UP ENDANGERED TRUCHA MARMORATA

As part of introducing a new cost effective concept for preservation of endangered fish species, Cryogenetics is working together with Veneto Agricoltura and the University of Parma spin-off GenTech to provide a model of effective cryopreservation to back up genes together with low cost DNA analysis to control inbreeding.

This model has been tested on the North-Italian and Slovenian fish species Trucha Marmorata (*Salmo Marmoratus*). Cryogenetics aims to introduce this as the preferred future model for fish conservation.



Trucha Marmorata (Salmo Marmoratus)

For more information of the above or any other Cryogenetics products, please contact us at www.cryogenetics.com/

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"Preserving Aquatic Genes"

Cryogenetics is a Norwegian based biotech company that develops and offers products and services, aiming for a better reproduction and higher fertilization of aquatic species.

By being a leader in applying biotechnological processes, Cryogenetics gives their customers cost reducing solutions suited their production.

Cryogenetics has units in Canada, Chile, Norway and USA.

