How we produce AquAdvantage® Salmon eggs

AquAdvantage® Salmon (AAS) eggs are produced using the same methods as employed by commercial hatcheries to produce conventional Atlantic salmon eggs.

The process starts with male and female broodstock which are carefully selected to produce the highest quality milt (sperm) and eggs.

The female broodstock is comprised of superior lines of non-transgenic conventional Atlantic salmon which, when fully mature, are gently massaged to extrude the unfertilized (also known as “green”) eggs.

To those green eggs is added milt that has been extruded from male Atlantic salmon that carry the AAS transgene enabling fast growth. This transgene is a permanent part of the male’s genome and is heritable, meaning it is passed naturally from one generation to the next.
AquAdvantage® Salmon are identical to conventional Atlantic salmon in all respects when it comes to their consumption. AquAdvantage® Salmon are a healthy and sustainable seafood choice.

The resulting combination of the non-transgenic conventional Atlantic salmon eggs and the AAS milt is fertilized AAS eggs. Using these methods, AquaBounty Technology’s breeding program has successfully produced ten generations of AquAdvantage® Salmon at the Company’s breeding hatchery in Canada.

The fertilized AAS eggs are then pressure shocked to induce sterility, making the fish produced from these eggs unable to reproduce.

Finally, the fertilized, sterile, all-female AquAdvantage® Salmon eggs are placed in incubators until they develop (“eyed-up”) and are ready for shipping as “eyed eggs”.