



Are you getting the best of your herd?

Fast forward your genetic progress with Sexcel Sexed Genetics.

- More Milk
- More Profit
- Great Genetics
- Most advanced technology for sexing
- It all adds up to the faster expansion of a more productive herd.



GENUSABSINDIA.COM | abs.india@genusplc.com



Fast Forward Your Genetic Progress

Sexcel™ Genetics - Straw Handling Guidelines

At Genus ABS, the experience when using our genetics is a priority. Every semen collection from Genus ABS Sires undergoes a series of rigorous quality control evaluations to ensure that every straw sold meets our high standards.

To get the best possible results from using Sexcel genetics, please also follow our heifer rearing protocols available at www.abssexcel.com and please use the following straw handling protocols;

1. **Straw identification and transfer**

Use the tank inventory card to identify the goblet location containing the straw. Never lift the goblet above the frost line in the neck of the tank. If the straw is not identifiable within 10 seconds, lower the goblet back into the liquid nitrogen for at least 10 seconds before recommencing identification. Use the appropriate tweezers for 0.25cc straws, never fingers, to pick up straws.

2. **Thawing procedure**

Genus ABS recommends thawing only one straw of Sexcel at a time as the objective is to thaw the number of straws that can be inseminated within 5 minutes of thawing. Replace the thaw bath water daily and ensure the temperature is between 35C to 37C (95F to 98F) using a thermometer. Thaw the straw in the water bath for 30 seconds. Remove the straw from the water using tweezers and protect from the environment using a clean, dry paper towel. Use the paper towel to dry the straw.

3. **Move the air bubble**

Gently shake the straw taking it with the tip of your fingers by the crimped end to move the semen to the plugged end and air upwards to the crimped end of the straw. Shaking the straw will not damage the sperm cells, if the bubble is not moved, 1-5% of the sperm will be lost. Ensure that there is minimal time between removing the straw from the thawing bath and loading it into the AI gun, and that you protect the straw from cold wind and sun light.

4. **Load the AI gun**

Place the thawed straw into the AI gun with the plugged end first. Cut the straw at 90 degrees 1cm below the crimped end, with clean scissors or a straw cutter. Place the plastic sheath over the loaded AI rod. Ensure that the straw enters and adapts well inside the green or blue plastic piece of the sheath. Carefully depress the plunger so that semen enters the end of the straw but not does escape from the sheath, removing the air bubble from the straw. The use of a plastic 'chemise sanitaire' is recommended on top of the AI gun sheath.

5. **Number of straws per heifer**

Inseminate one complete straw per heifer, do not split straws.

Sexcel™ Genetics - Straw Handling Testing Protocol

This protocol should be used in conjunction with advice from ABS Sexcel experts.

Sexcel uses a highly specialised new technology that means things will look different when you are testing. The product will look different underneath a microscope due to the way the product has been designed. Male sperm cells are incapacitated and female sperm cells flow through our technology with minimal impact, therefore our 21st century technology is very gentle on the important female sperm cells.

A totally new sexed genetic technology

As described above, male sperm cells will be incapacitated and will remain within the straw for use. This means that the product will look strikingly different to any other product that you may have previously viewed underneath a microscope. For post thaw motility testing, calculate the number of motile cells post-thaw using the following protocol.

Storage, removal from tank and thawing

Sexcel should be stored in the same way as all other frozen semen products. Taking care to ensure that Sexcel remains immersed within liquid nitrogen and should not be exposed to any change of environment.

For removal from tank and thawing you should follow the protocols set out in the Sexcel Handling Protocols.

Sexcel Product

Sexcel Sexed semen straw is produced to have a minimum of 2.1 million sperm cells pre freeze and a minimum of 1.05 million post thaw motile cells.

How to measure

The number of motile cells in the straw is what's important and not only the % motility. You will be required to use a Hamilton-Thorne IVOS2 for this purpose because it can count motile cells and deliver a quantity per volume. They have a "static cell filter" on the software so it just counts and reports motile cells.

For any information on ABS Sexcel Sexed Genetics, contact ABS representative or write at abs.india@genusplc.com