

# EFFECT OF CELL-RATE™ ON EMBRYO TRANSFER IN COWS

## 1. First Trial

This trial was performed under the supervision of the farm manager. The owners of this farm have had experience with embryo transfer in cows for many years.

### Number of embryos per cow:

Normal: 6 - 7 embryos per cow

By using CELL-RATE™ the number of embryos **increased to 12 - 14 embryos per cow**, occasionally up to **17 embryos**. The best improvement was found in first calvers.

In the same trial, cows coming into heat were **much more noticeable**. The biggest difference was detected in first calvers. The **Non-Return-Rate** in the trial period was between **80 - 90%**. Before, the Non-Return-Rate was 65 - 70%.

## 2. Second Trial

The second trial was performed in connection with a well known university with cows from another farm. The farm is known to have an optimal and well equalized feeding program.

### Numbers of embryos per cow:

Normal: 4 - 6 embryos per cow

With the supplementation of CELL-RATE™ the farmer found 4 - 5 more embryos than without CELL-RATE: **17 viable embryos in first calving cows**.

Two cows with low numbers of embryos were brought to the university and tested for the use of CELL-RATE™ in embryo transfer. Both cows showed improved embryo formation.

- The first cow (5th lactation): **12 embryos**
- The second cow (first calving): **9 embryos**

The farmer recognized that the diet used at the university was not optimal. This was the reason why fewer embryos were found than with the cows at the farm.

## Conclusion

The supplementation of CELL-RATE™ helps the development of the embryos in cows leading to higher number of embryos by embryo transfer.