



x  zelit[®]

X-Zelit[®]

Optimised transition feeding

VILOFOSS[®]

Perfect calcium balance around calving

-Zelit is a unique dietary feed for preventing hypocalcaemia in dairy cows. In general, around 50 percent of cows are suffering from subclinical hypocalcaemia. Hypocalcaemia reduces muscle function and immune response resulting in a knock-on effect to other disorders. Through lots of trials, tests and farm experiences X-Zelit has proven its effectiveness and unique mode of action.

X-Zelit is a calcium binder and it works on a very basic principle, the low calcium approach. X-Zelit is added to the close-up ration 14-21 days prior to calving. During these days it binds excess calcium from the ration in the small intestine of the cow.

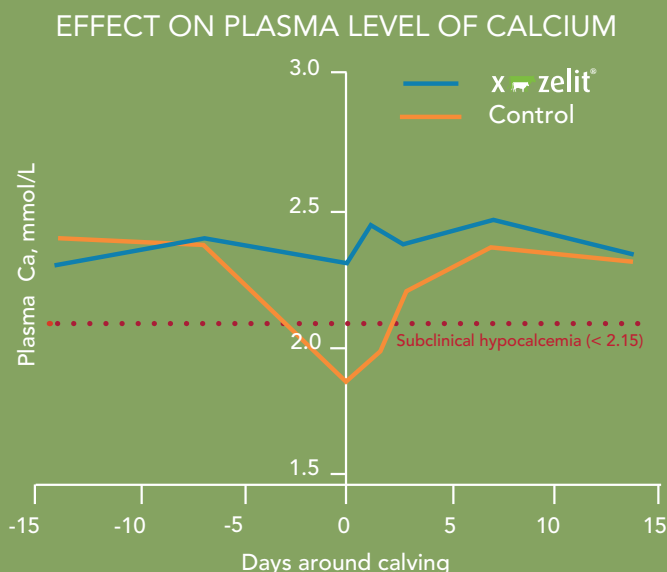
As the cow no longer absorbs calcium through her diet, she begins her natural process of actively withdrawing and absorbing calcium from her bones.

When calving begins the cow's system for controlling calcium levels is fully activated

and she is able to maintain a perfect balance throughout calving and into lactation.

One of the most important factors for providing a good lactation start, is the calcium level around calving.

Calcium levels are crucial for proper muscle function and the immune system. Therefore, all levels differing from the optimum, will impair the cow's health status and productivity.



X-ZELIT SECURES ECONOMIC RETURN

X-Zelit gives you a safe economic return of investment by increasing productivity, lowering hypocalcaemia and other related diseases. The expenses of hypocalcaemia are typically connected with reduced milk yield, low fertility, low feed intake and higher vet costs.

| | Clinical hypocalcaemia | Subclinical hypocalcaemia | Total |
|------------------------------|------------------------|---------------------------|---------|
| Incidence, (Reinhardt, 2011) | 4 % | 50 % | |
| Cost per case (Oetzel, 2011) | 260 € | 110 € | |
| Cost per 100 animals | 1040 € | 5500 € | 6540 € |
| Cost per animal | | | 65.40 € |
| Minimum return of investment | | | 3 |

A close-up photograph of two dark brown cows in a stable, both focused on eating a large pile of green hay. The cow on the left is in the foreground, with its head and neck clearly visible. The cow on the right is slightly behind and to the side. The background shows the wooden structure of a stable stall. The overall lighting is warm and natural.

The results speak for themselves

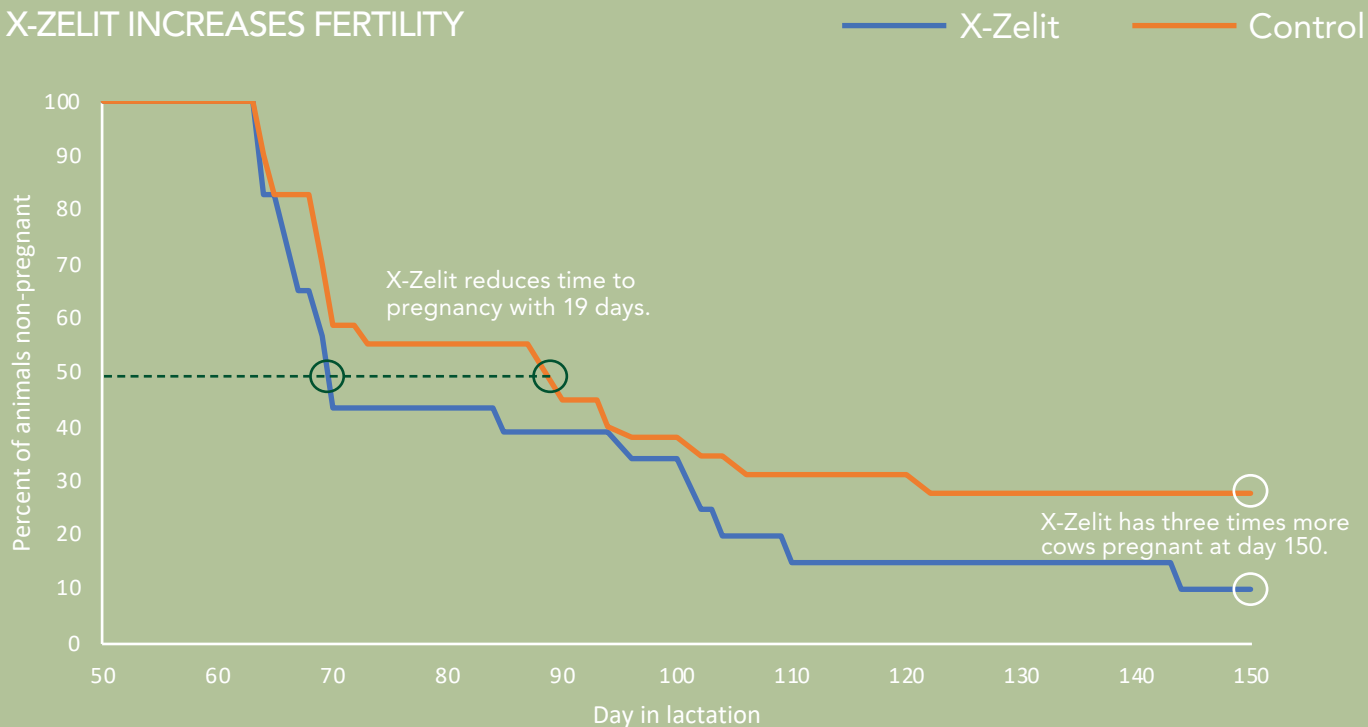
Through numerous trials, tests and practical knowledge from farmers X-Zelit has proven its effectiveness and will ensure the following:

- Full blood calcium balance at calving
- Reduced number of empty days
- Improved fertility
- Increased milk yield
- Better quality of colostrum
- Higher feed intake
- Reduced metabolic diseases
- Increased rumination
- Lowering somatic cell count

Study from Cornell University

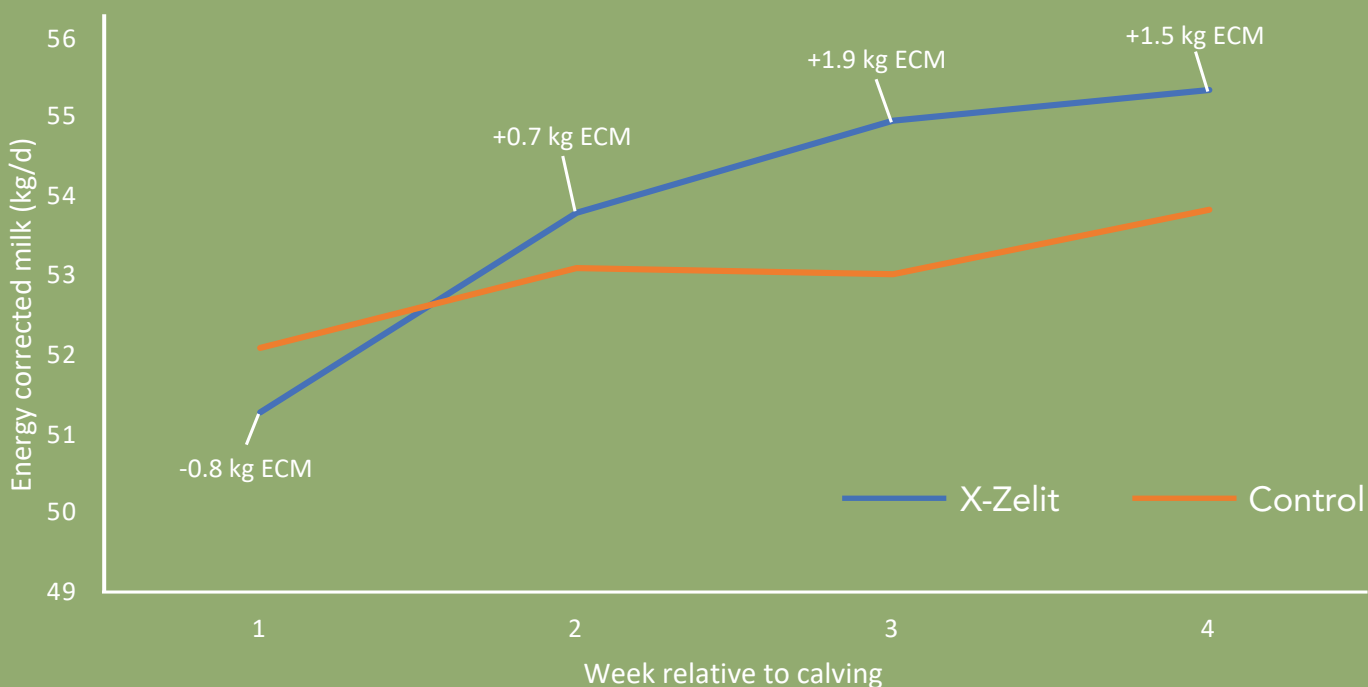
A study by Tom Overton at the highly recognized Cornell University in USA proves the unique concept of X-Zelit. The following four figures on X-Zelit demonstrate the key conclusions:

X-ZELIT INCREASES FERTILITY



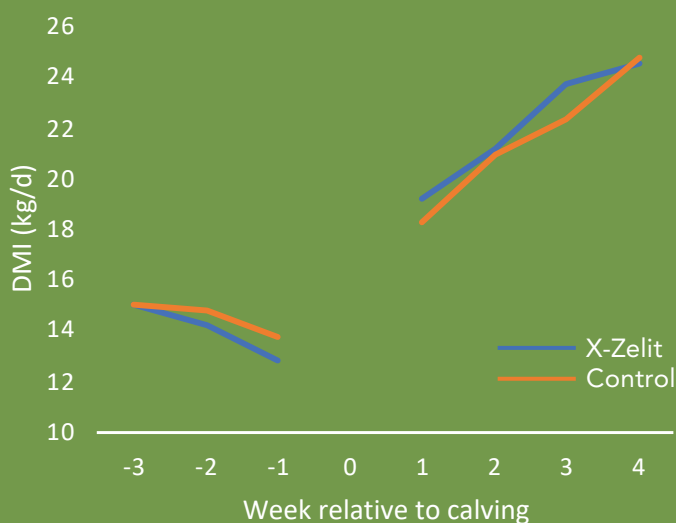
X-ZELIT INCREASES MILK YIELD

In the first week the milk yield is slightly lower, but thereafter the cows respond positive and in week 3 and 4 they produce around 1.5-2.0 l extra. Usually this will continue throughout the lactation.





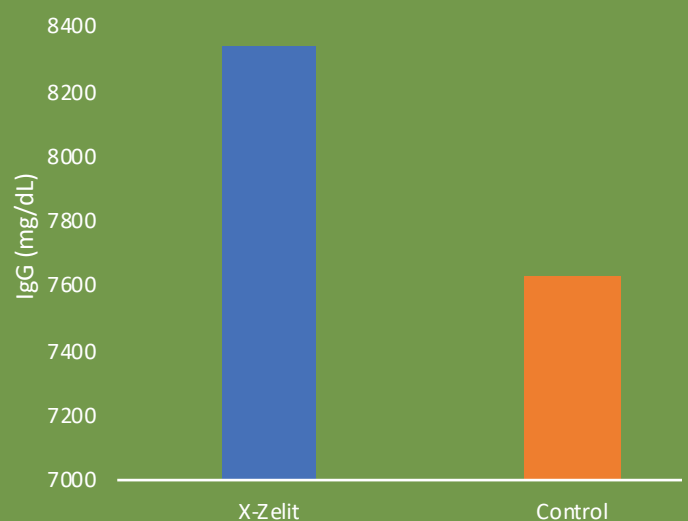
Quick return to feed after calving



The first week after calving the feed intake was found to be nearly 1 kg DM higher in the X-Zelit group – demonstrating the quick return to feed after calving. During the first 4 weeks the feed intake were +0.5 kg DM higher for the X-Zelit group. This ensures a higher energy intake in the animals, which probably explains some of the positive effects found on other production traits.”

X-ZELIT IMPROVES COLOSTRUM QUALITY

High quality colostrum is of crucial importance for the health and wellbeing of the newborn calf. X-Zelit improved the colostrum quality in the X-Zelit group with approximately 10% compared to the control group.



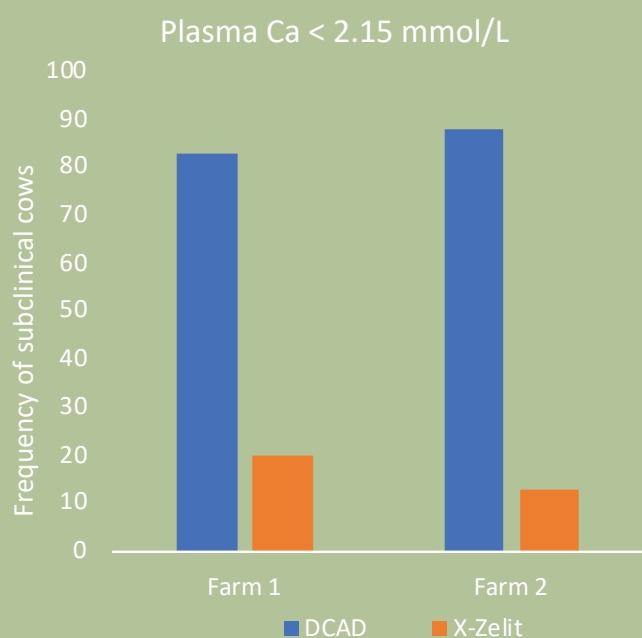


X-Zelit versus feeding anionic salts

X-Zelit is easy to handle - no need to take pH measurements of the urine. X-Zelit works independent of the potassium level. Thus, dry cows can be fed with high potassium feed as for example late cut clover grass silage or be on fresh pasture.

When X-Zelit is used no other remedies are needed at calving.

Many farmers have compared the efficiency of X-Zelit with the traditional feeding of anionic salts. The differences are easily demonstrated by taking blood samples from cows that have recently calved. The average level of plasma calcium is increased using X-Zelit and the frequency of subclinical hypocalcaemia can be decreased from 80-90 percent to 15-20 percent.



Efficiency of X-Zelit compared to cows fed anionic salts (DCAD)
(ref. ADSA, 2018)

Do you have subclinical hypocalcaemia on your farm?

The level of hypocalcaemia in herds is often more than 60 percent. The farm level of hypocalcaemia is easily demonstrated by taking blood samples from 5-10 older cows at calving. We highly recommend farmers to access own farm specific level of SCH and to explore how easily this problem can be solved using X-Zelit.

The following table shows calcium level of individual cows at calving before and after the prepartum group has been introduced to X-Zelit.

| 19 May | 10 Jun | 24 Jun | 14 Jul | 28 Jul | 11 Aug | 19 Aug | 22 Aug | 30 Aug | 9 Sep |
|--------|--------|--------|--------|--------|-------------------------|--------|--------|--------|-------|
| | | | | | Introduction to X-Zelit | | | | |
| 1.75 | 1.73 | 1.55 | 2.18 | 2.08 | 2.20 | 2.23 | 2.53 | 2.38 | 2.28 |
| 1.85 | 1.85 | 2.05 | 1.95 | 2.05 | 2.15 | 2.38 | 2.13 | 2.35 | 2.30 |
| 1.80 | 1.98 | 1.95 | 1.98 | 1.85 | 2.23 | 2.33 | 2.28 | 2.50 | 2.25 |
| 2.00 | 1.53 | 2.08 | 1.85 | 2.08 | 2.38 | 2.33 | 2.33 | 2.40 | 2.05 |
| 1.88 | 2.05 | 1.98 | 1.98 | 2.20 | 2.35 | 2.35 | 2.03 | 2.38 | 2.28 |
| 2.08 | 1.78 | 2.15 | 1.93 | 1.83 | 2.08 | 2.43 | 2.28 | 2.30 | 2.28 |
| 1.85 | 1.98 | 1.75 | 2.10 | 2.08 | 2.50 | 2.33 | 2.08 | 2.20 | 2.18 |
| 1.98 | 1.93 | 1.88 | 1.73 | 2.10 | 2.35 | 2.33 | 2.30 | 2.33 | 2.30 |
| | | | | 2.08 | 2.30 | | | 2.35 | 2.03 |
| | | | | 2.20 | 2.25 | | | 2.33 | 2.18 |
| 1.90 | 1.85 | 1.92 | 1.96 | 2.05 | 2.28 | 2.33 | 2.24 | 2.35 | 2.21 |

- Orange markings indicate cows with subclinical milk fever ([Plasma Ca]<2.15 mmol/L)
- Blue markings indicate cows with optimal calcium values ([Ca]≥2.15 mmol/L)

X-Zelit – the unique solution

X-Zelit is sold with great success all over Europe as well as countries like Canada, USA, Australia, New Zealand, Japan and others.

If you would like to know more, please contact us or take a look at www.x-zelit.com, where you can find many on-farm testimonials from all over the world as well as further information about the trials made on X-Zelit.

Watch product movie:
X-Zelit | A perfect calcium balance at calving
at www.youtube.com

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