

**Calz-o-Phos Liquid**

# Reducing the risk of milk fever: healthy cows for profitable production

- » Prevention of milk fever through an adequate diet
- » Targeted support of metabolism
- » Support the dairy cow in an easy and stressless way
- » Proven in the field



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## Calz-o-Phos Liquid

# Reducing the milk fever risk

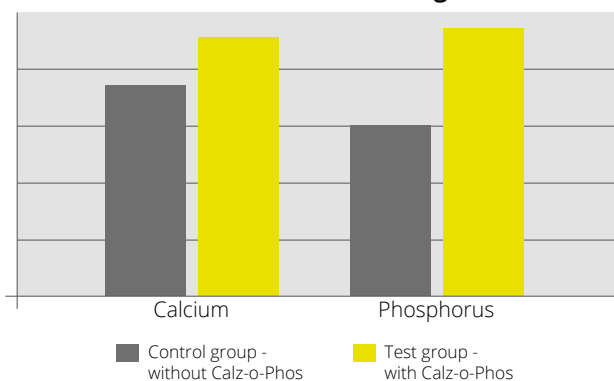
Milk fever is a disease of the calcium and phosphorus metabolism. Shortly after birth the organism is forced to mobilize high amounts of calcium and phosphorus out of the bones. It can take up to 48 h to “warm-up” this mobilization.

Meanwhile, the cow suffers from a deficiency of calcium and phosphorus in the blood. This deficiency has a negative impact on muscles and nerves - the parturient paresis or milk fever. On average every 10th calving cow suffers from clinical and every 3rd cow from subclinical milk fever.

## How it works

- » Calz-o-Phos Liquid is a dietary complementary feed to reduce the risk of milk fever (parturient paresis).
- » Calz-o-Phos Liquid does not contain calcium chlorid but only sources of calcium which are mucosa-friendly.
- » Calz-o-Phos Liquid effectively supplies the cow with calcium and phosphorus around delivery.

Calcium and phosphorus levels in the blood  
24 hours after calving



## Proven Results

Calz-o-Phos Liquid in practice:  
Improved supply  
of calcium and phosphorus in dairy  
cows after calving.

## Your benefits

- » Improved supply of calcium and phosphorus
- » Less incidence of milk fever in cows
- » Targeted measure due to individual application
- » Higher profit

Trial No. BUL0005\_12FS20

## Calz-o-Phos liquid recovers calcium and phosphorus levels in cows after calving

### Conclusion

The study shows significantly higher Ca and P levels in the blood of cows 24 h after calving due to the application of Calz-o-Phos liquid. The product can, therefore, be used as a tool to prevent milk fever.

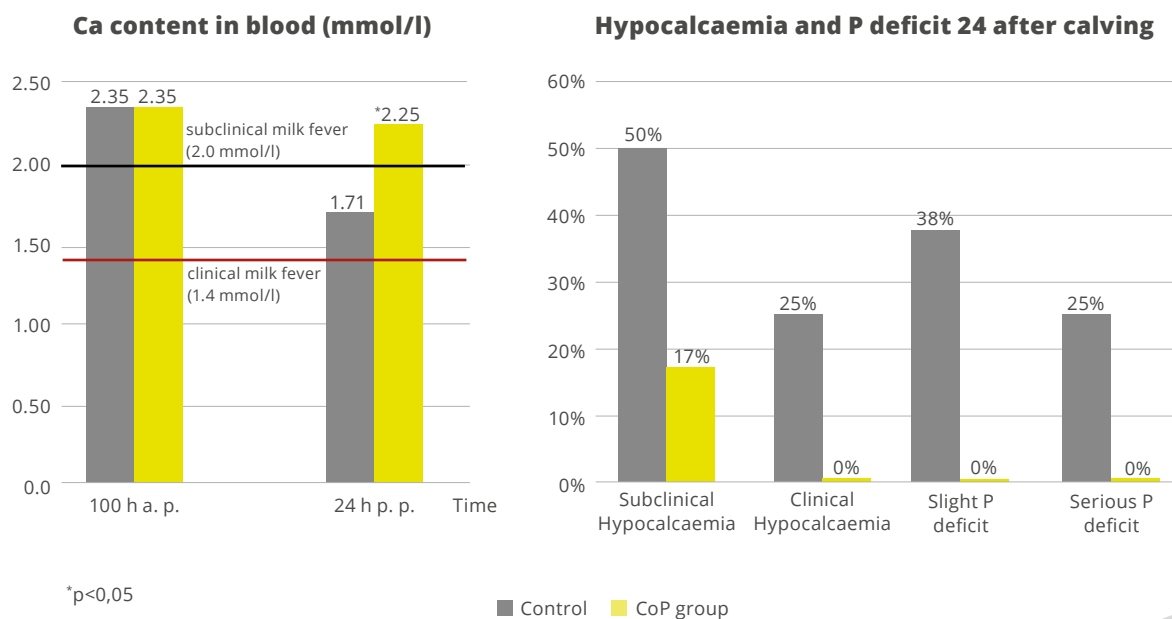
### Trial summary

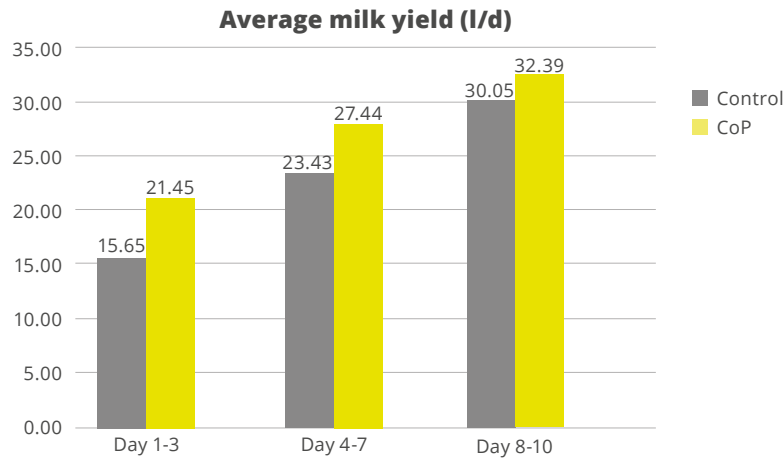
A study conducted with 15 cows shows that Calz-o-Phos liquid (CoP) is an effective tool to prevent milk fever. Additional to the recovery of Ca and P values in the blood after 24 h to a normal level, the experimental group provided more than 37 % higher milk yields during the first three days.

For colostrum production, the cow requires high amounts of Ca but also P in the short term, and Calz-o-Phos provides the optimal combination of these two substances.

### Results

- » Calcium and phosphorus levels in the blood serum were in the CoP group significantly higher than in the control group after 24 hours
- » The increased availability of calcium and phosphorus had a positive effect on milk yield





## Material & methods

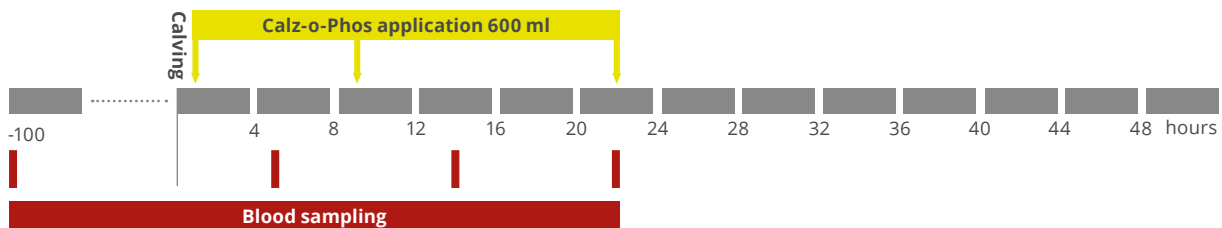
The study was conducted on a farm in Germany. For the study, 15 cows at the at least 3rd calving were divided alternately into two groups:

The control (n=8) didn't receive any prophylactic high-concentrated applications of Ca or P

The CoP (n=7) group was applied 600 ml Calz-o-Phos liquid three times by using a drench gun of 300 ml: at 1.5 h, 9 h and 22 h after calving.

Samples: Blood samples were collected 100 h before and 5, 14 and 22 h after calving to determine Ca and P levels.

Data from the milking robot provided information about milk yield.



## Discussion

Deficiency of calcium and phosphorus can lead to secondary disorders such as mastitis, ketosis or displacement of the abomasum. Especially subclinical milk fever is critical, as it often remains unnoticed and gets not treated.

Calz-o-Phos provides an optimal combination of both minerals. The trial showed that the application of the product led to a faster recovery of Ca and P levels after calving resulting in fewer cows suffering from milk fever or P deficiency. As Ca and P are needed for milk production, an increase in milk yield is a further positive consequence.

Trial setup		Result at a glance
Animals:	Dairy cows	<ul style="list-style-type: none"> <li>» Recovery of Ca and P levels after calving faster than in the control group</li> <li>» Less incidence of milk fever and P deficiency</li> <li>» Higher milk yield</li> </ul>
Main subject:	Ca and P levels, milk yield	
Product:	Calz-o-Phos liquid	
Inclusion rate:	3 x 600 ml	
Country:	Germany	