

# VERVEKA IMMUNOGAN

## Safeguard animal resistance pays off!

- Healthy cows deliver high performance -

### TYPE

Mineral mix for bovine and young stock.

### PERFORMANCE

- + Supports rumen functioning
- + Supports overall resistance
- + Can contribute to a lower usage of antibiotics
- + Supports during the transition
- + Binding (myco)toxins

### ADVICE

Calf: 9 g/100kg BW/day

Cow: 60 g/cow/day

Goats: 10-15 g/goat/day



365 days

During the lactation and dry period.

When you manage to balance your animal's immune system, you know the output is going to be promising. But reaching this goal of a balanced immune system is not obvious. The balance can be disrupted by multiple reasons, such as calving, stress, bacteria and viruses. But what is the way to maintain the balance through all of these circumstances? Significant activation of the defence system can be reached by feeding Verveka ImmunoGan. In this way future results can only be improved and so you can economize on medical and disablement costs.

Decrease of the immunity can result in a higher risk for metabolism disorders, fertility problems and claw issues. In this situation the transition management is crucial. Besides the lack of resistance of the animal, mycotoxins can also be an important threat for the well-being of your cow (figure 1).

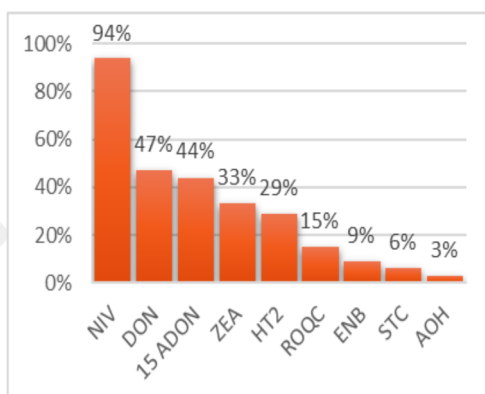


Figure 1. Present mycotoxins in corn silage in the Netherlands (Bruinberg, 2011).

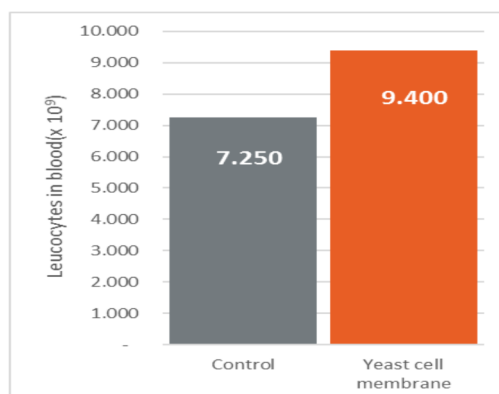


Figure 2. Impact of the yeast cell membrane on the white blood cells in the blood (Dobicki, 2005).

Because of their abolition of the immune system, mycotoxins have an intensifying effect on the decrease of the animal's resistance. In addition, mycotoxins also intervene on the digestive system function, fertility, production and growth of the cow. These negative effects of mycotoxins can be reduced significantly by adding clay minerals to the feed. To reach an even broader impact clay minerals are combined with yeast and yeast cell membranes.

Another crucial point for getting a healthy, high productive cow is to ensure an optimal rumen functioning. The addition of yeasts can contribute to this. Besides this, the product contains yeast cell membranes. Research proves that providing yeast cell membranes to your animal results in a more active immune system (figure 2).

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### APPLICATION

- + Roughage
- + Concentrate
- + Mineral mix
- + Young stock feed

### EFFECTS

- Milk production
- ↘ Somatic cell count
- ↘ Medical costs
- ↘ Disablement

Other research points out that the addition of yeast and yeast cell membranes conducts to an increase of the milk production, a reduction of the somatic cell count, less transition illness and less uterus problems (table 1 en figure 3).

Table 1 Influence of yeast and yeast cell membranes on dairy cattle (Dobicki, 2005)

	Control	Trial group
Milk (kg/d)	23,8	26,8
Fat (kg/d)	1,01	1,13
Protein (kg/d)	0,75	0,84
Somatic cell count (/ml)	216.440	129.800
Rumen bacteria ( $\times 10^8$ )	0,62	1,00
Rumen Protozoa ( $\times 10^5$ )	1,52	1,81

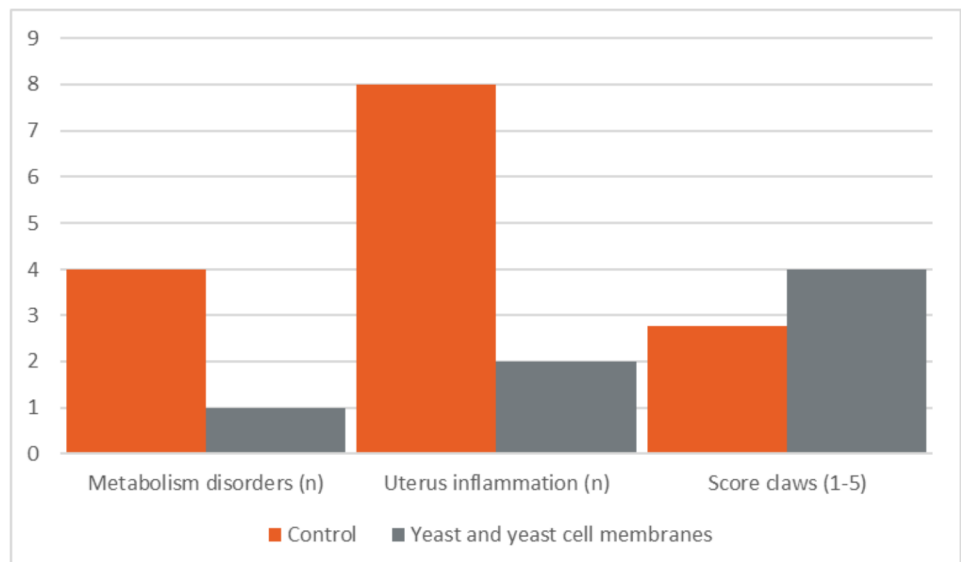


Figure 3. Influence of yeast and yeast cell membranes on the well-being and on the claws (Dobicki, 2008).

**For more information:**

Jan Verspui— Sales

Bart Claesen—Feed specialist