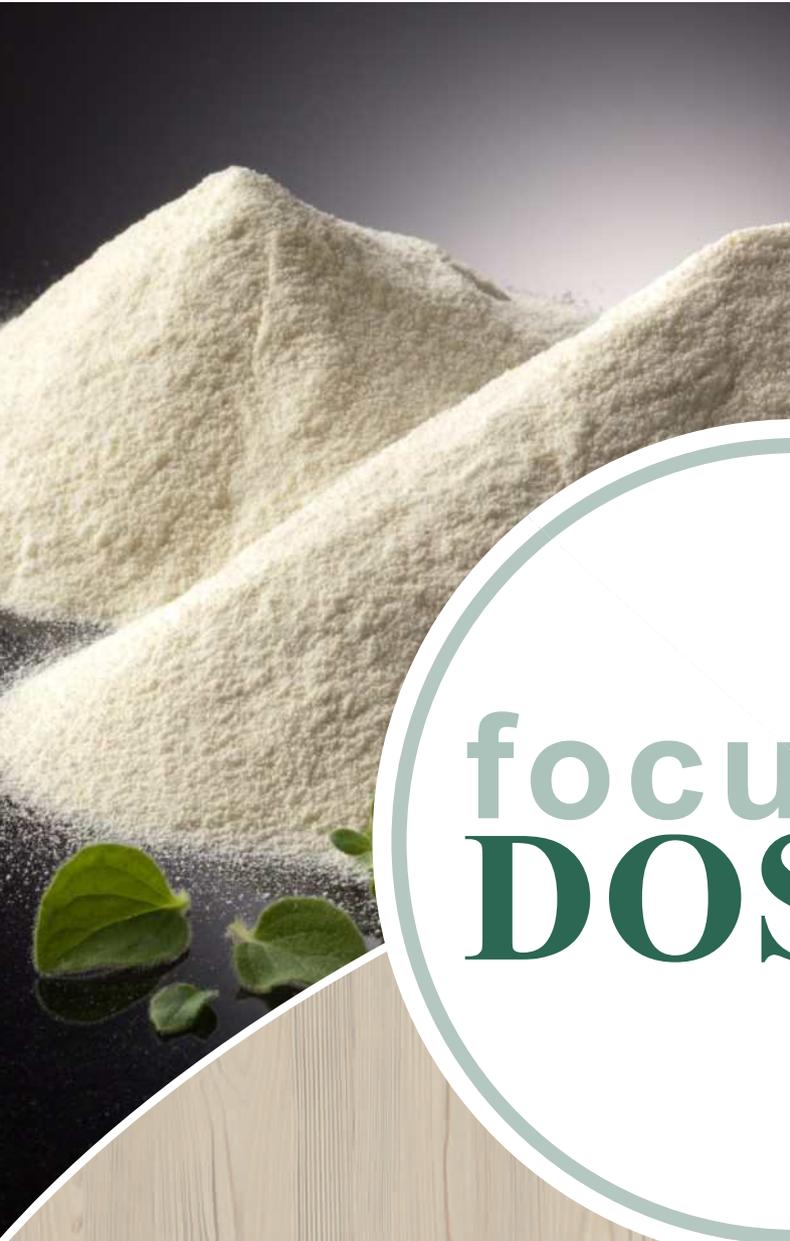




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**DOSTO**FARM<sup>®</sup>



focus on  
**DOSTO**

## **Stress Management in Cows**

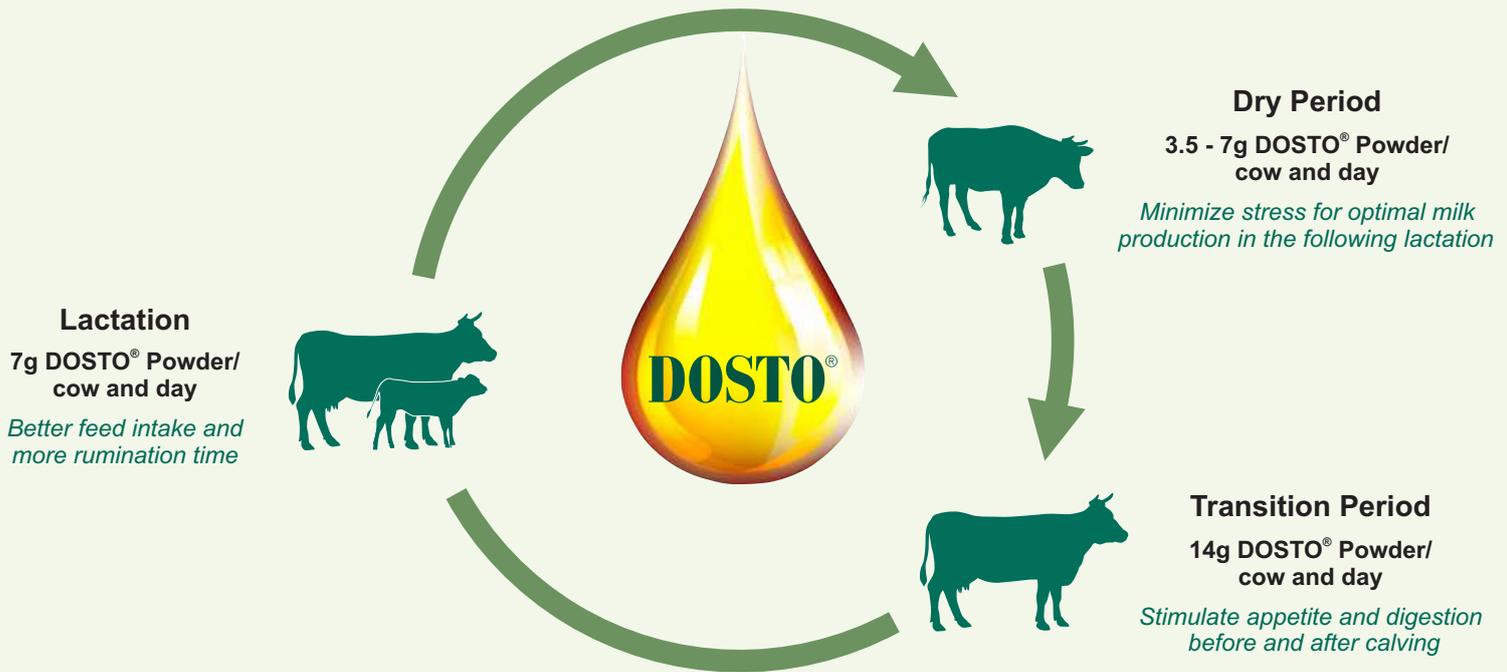
Effect of natural DOSTO<sup>®</sup> Oregano Oil on Environmental, Metabolic and Nutritional Stress

# DOSTO® Oregano Oil for Dairy Cows

Several factors (environmental, biological, management) can stress cows, causing health challenges, production issues and economical losses.

The essential oil of DOSTO® Oregano has proven antibacterial, immune stimulant, antioxidant and rumen modulating properties.

By adding DOSTO® Oregano oil to the diets we have healthier cows with a strong immune system. Negative effects caused by stress during the different production phases can be successfully minimized and the use of antibiotics reduced.



## Stimulating Feed Intake

For a healthy cow and a good start into the lactation it is essential to deliver the needed nutrients. During some phases like late gestation or extreme weather conditions, dry matter intake can drop and the risk of metabolic disorders increases.

In a trial performed on a German dairy farm, in collaboration with the Osnabrück University of Applied Sciences, DOSTO® Oregano was evaluated to stimulate feed intake and rumination activity.

The experimental group was fed a concentrate feed supplemented with DOSTO® Powder in an automatic milking system.

DOSTO® Powder increased the palatability of the feed and the cows of the experimental group had more milkings per day (Figure 1).

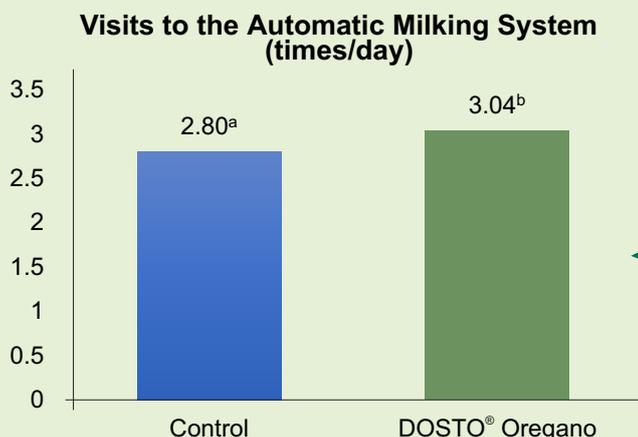


Fig. 1: DOSTO® Oregano stimulates the feed intake and milk production (a,b differ (P<0.05)) (Mass, 2019)

The group supplemented with DOSTO® Oregano Oil ruminated thirteen minutes longer per day. Optimum chewing time is needed to minimize the risk of rumen acidosis.



## Modulating Rumen Microflora

If dry matter intake is lower than expected, the feed digestibility must be optimal to meet the cow's nutrient requirements. By modulating the rumen fermentation, the efficiency of feed utilization can be improved.

A study with early lactation Jersey cows at the Stellenbosch University demonstrated that DOSTO® Oregano significantly improves the digestibility of dry matter (DMd) and neutral detergent fibre (NDFd) of pasture in the rumen. Also the total volatile fatty acids (VFA) concentration was positively influenced (Fig. 2).

Microbes in the rumen ferment carbohydrates into volatile fatty acids. They provide more than 70% of the ruminant's energy supply. Acetate is a precursor for mammalian milk fat and propionate is used in lactose synthesis.

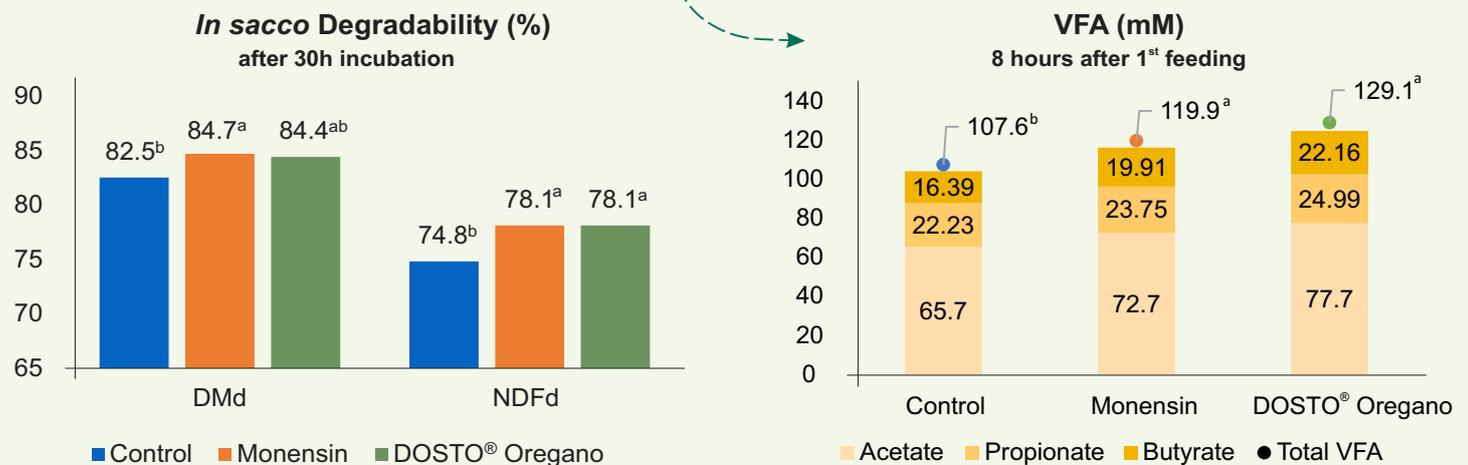


Fig. 2: A study on the experimental farm at the Stellenbosch University showed the positive effect of DOSTO® Oregano oil on dry matter, neutral detergent fibre digestibility volatile fatty acids concentration (a,b differ (P<0.05)) (Moller, 2015)

## Increasing Productivity

Regardless of the cause, stress can adversely impact both quantity as well as quality of milk produced. For example, **heat stress** can affect the various components of milk such as fat and can increase the somatic cell count indicating the reduction in quality of milk produced.

Different scientific and field tests demonstrate that DOSTO® Oregano can increase milk production, depending on the health status of the cows, from 0.6 to 1.8 liter.

As shown in figure 3, the addition of DOSTO® Oregano essential oil to dairy cow diets also stimulated fat production.

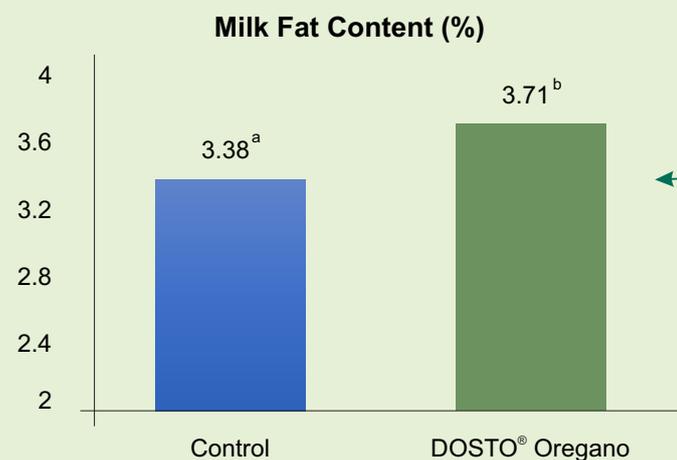


Fig. 3: Effect of DOSTO® Oregano oil on milk fat content (a,b differ (P<0.05)) (Nowers, 2016)

DOSTO® Oregano oil is 100% safe and has no influence on the aroma and taste of milk





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## Healthier cows, better performance

DOSTO® Oregano's appetite stimulating, antioxidant and rumen modulating properties have a direct effect on the cows health and performance during stress phases like:

- transition
- calving
- heat stress
- inconsistent feed quality

Do you have questions about the use of DOSTO® Oregano in cow diets?

Contact us! [mail@dostofarm.de](mailto:mail@dostofarm.de)

References are available on request.

