# Digestarom® Dairy

## Supporting rumen balance and dairy performance during high-starch feeding

**Phytogenic support for SARA resilience**



dsm-firmenich

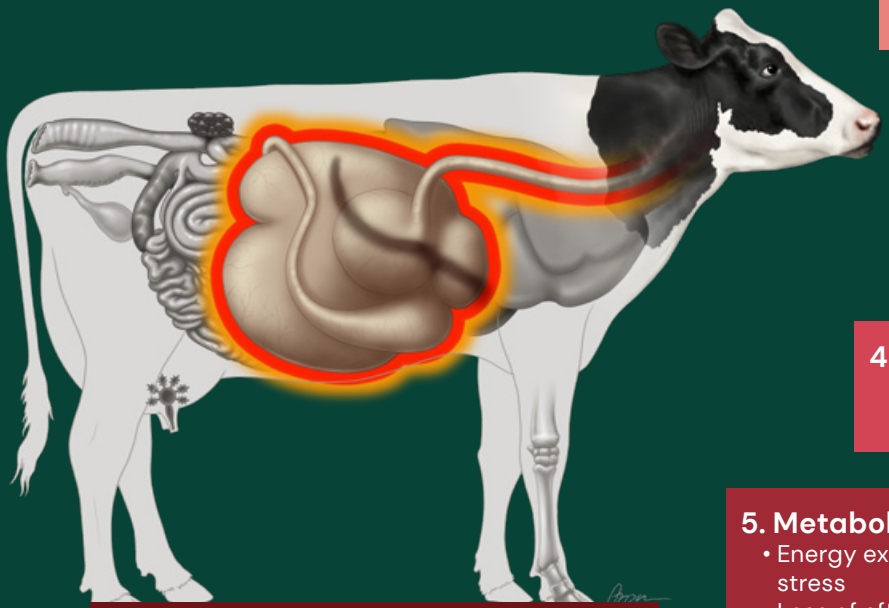
# Sub-Acute Ruminal Acidosis:
## A Hidden Threat in High-Producing Herds

**High-starch diets increase energy density but also increase the risk of Sub-Acute Ruminal Acidosis (SARA). SARA occurs when rumen pH remains below 6.0 for extended periods, disrupting rumen fermentation and triggering a cascade of physiological consequences affecting animal health and performance.**

## The chain of events during SARA

**1. Drop in rumen pH**
- Lower pH (more time below 6.0 pH)
- Reduced rumination

**2. Shift in rumen microbiota**
- Cellulolytic bacteria decline
- Less healthy microbiota proliferates
- Gram (–): ↗LPS risk



**3. Intestinal inflammation & barrier function damage**
- Epithelium damage
- ↗pathogen translocation and proinfl. endotoxins
- ↘nutrient absorption

**4. Liver stress**
- Histamine (entering systemic circulation)
- Acute phase proteins (inflm. Markers)

**5. Metabolic consequences**
- Energy expenditure on immunity & oxidative stress
- Loss of efficiency

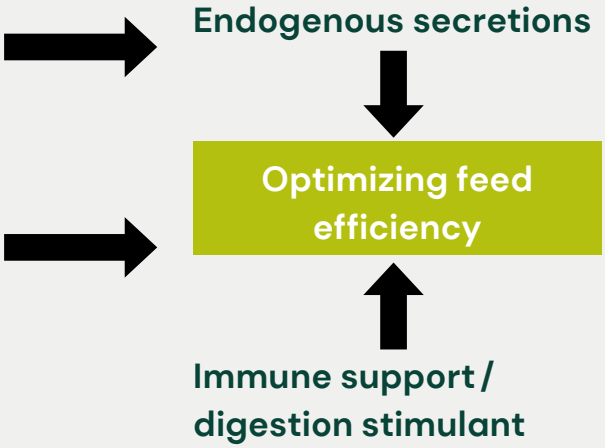
**6. Productive consequences:**
- Lower milk yield and fat depression
- Higher SCC, mastitis
- Laminitis & joint swelling

# Digestarom® Dairy

A synergistic blend of essential oils, plant extracts, and phytogenic compounds that supports rumen function, resilience to dietary stress, microbial modulation, and fermentation stability, helping maintain digestive stability and production efficiency.

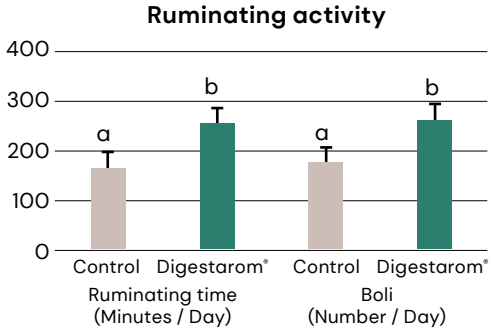
**1. Sensory effects**
- Aroma
- Palatability enhancer
- Appetite stimulant

**2.Biological effects**
- Anti-inflammatory
- Antioxidative
- Rumen motility
- Enhance GIT integrity
- Rumen microbial modulation



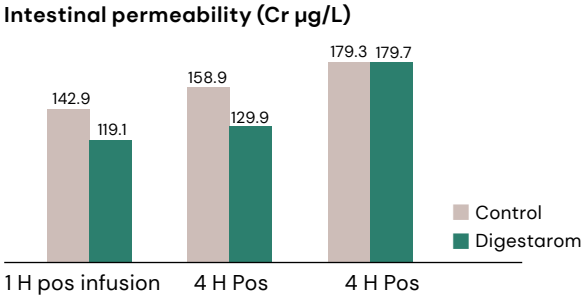

## Reduced SARA Risk during high starch feeding:

- Increase mean rumen pH
- Reduce time spent below the SARA threshold
- Support rumination and buffering capacity




## Reduced Gut Permeability Risk

- Promoting intestinal health and resilience
- Reduced intestinal and systemic inflammation



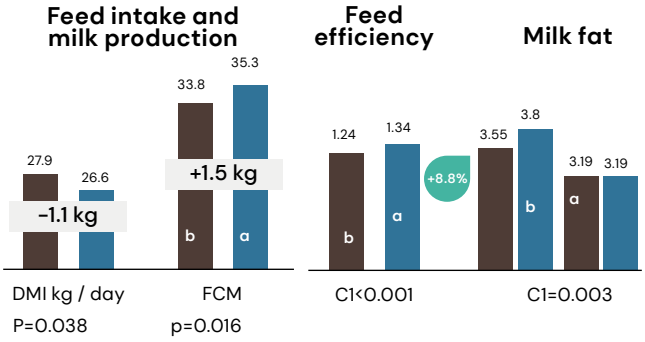

## Better microbial balance during high starch feeding:

- Minimizing the collapse of fiber degrading microbial communities
- Reducing the LPS (endotoxin) release in the rumen by decreasing gram negative bacteria

| Taxonomic classification according to SILVA and NCBI best BLAST hit ≥97% identity | Phase 1 | | | Substrate |
|---|---|---|---|---|
| | CON | | Digestarom® Dairy | |
| *Ruminococcaceaee* (f) | | ⇗ | ** | Cellulolytic |
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| *Prevotella ruminicola* (s) | | ⇘ | ** | Amylolytic, Hyper-$NH_3$ |
| Shuttleworthia (g) | | ⇘ | ** | Amylolytic |
| Syntrophococcus (g) | | ⇘ | ** | Amylolytic |
| *Prevotella ruminicola* (s) | | ⇘ | ** | Amylolytic |
| *Prevotella* (g) | | ⇘ | ** | Amylolytic, Hyper-$NH_3$ |
| *Olsenella* (g) | | ⇘ | ** | Amylolytic |
| *Eubacterium pyrubativorans* (s) | | ⇘ | ** | Lipid |

## Increased Milk and fat production

- Improved feed efficiency (ECM/DMI)
- Higher milk yield and milk fat concentration compared to control treatment (containing Monensin)






**Higher milk yield and milk fat**

- Better feed efficiency (ECM/DMI)
- Improved fiber digestibility
- Lower inflammatory load and improved welfare

## Application Digestarom® Dairy

**Recommended use:**

2 – 3 g per cow per day depending on dietary starch load.

**Suitable for:**

- Total Mixed Ration (TMR)
- Concentrates
- Pelleted feed
- Top-dressing

Digestarom® Dairy helps maintain rumen balance and performance when cows are exposed to high-starch feeding programs.

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