



HEMAND  
EcoFarm

# Live yeast specialized for ruminants

# Prody Live Cell



Product manufactured in Iran



# Mechanism of action

## Prody LiveCell

### Rumen Development

The development and maturation of the rumen, as well as its digestive function in ruminants, result from the colonization of microorganisms and their optimal activity within the rumen. **Livecell live yeast** consumes oxygen, allowing anaerobic microorganisms to function more efficiently. As a result, rumen maturation in calves is accelerated, and feed digestion—especially fiber digestion—is improved in both calves and adult livestock.

### Rumen pH Stability and Reduced Risk of Acidosis

**Prody Livecell** live yeast competes with lactic acid-producing bacteria for simple sugars, preventing their growth and proliferation, which in turn reduces lactate production in the rumen. Additionally, Livecell enhances the growth and metabolism of lactate-consuming bacteria, thereby lowering lactic acid levels in the rumen and reducing the likelihood of acidosis.

### Fiber and Grain Digestion, Reduced Undigested Feed in Feces

By increasing the number of cellulose-digesting microorganisms, **Prody Livecell** improves the digestion of fiber and grains, leading to a reduction in undigested feed in the feces. The decrease in fibrous residues and undigested nutrients in manure is one of the significant benefits of **Prody Livecell** supplementation.

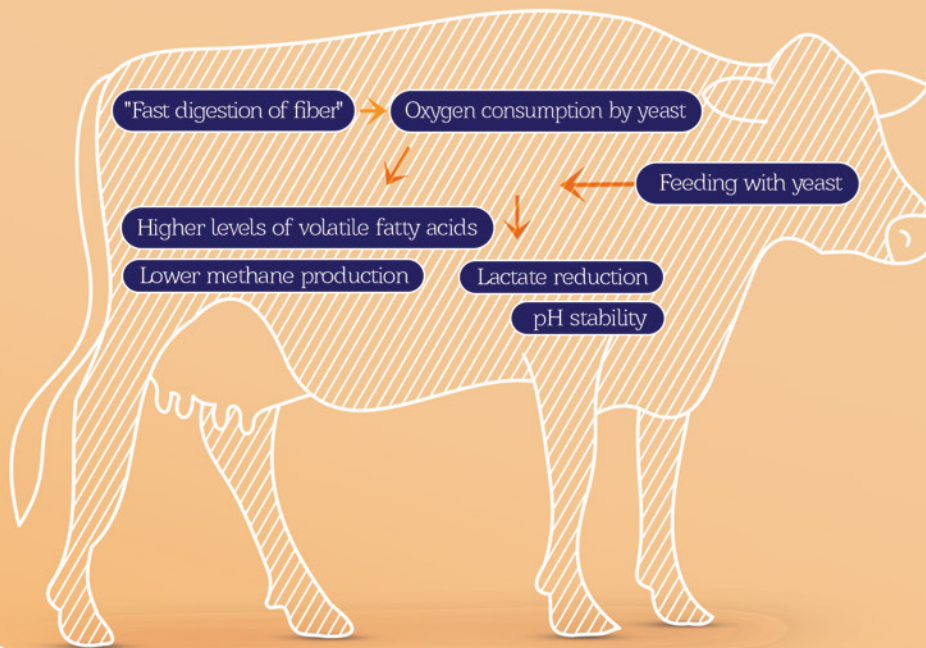
### Effect on Hoof Health and Reduced Lameness

The use of **Prody Livecell** helps reduce the incidence of acidosis, which in turn significantly lowers the occurrence of acidosis-related lameness in livestock. Additionally, by enhancing rumen health and improving rumination, **Prody Livecell** increases animal comfort and welfare. With more rest and reduced physical strain, the risk of lameness is further minimized.

### Reducing Negative Effects of Stress

Livecell increases feed digestion during stressful periods, particularly during the transition phase, providing the animal with more available energy and mitigating the negative impacts of stress. Additionally, under heat stress conditions, **Prody Livecell** enhances digestion, reduces acidosis risk, and improves overall animal comfort, leading to increased milk production, higher milk fat content, and reduced adverse effects of

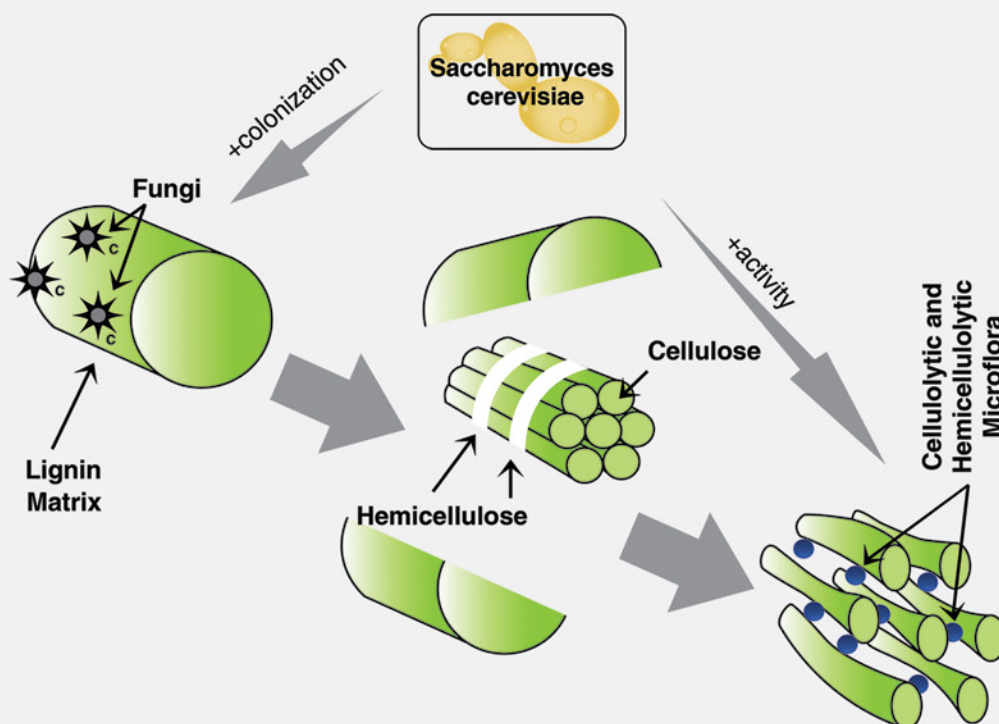
## Effects of yeast in the rumen



### Analysis

*Saccharomyces Cerevisiae*

$20 \times 10^9$  CFU/gr





Target animal: Ruminants

Packaging: 10 kg in cardboard boxes

Storage conditions: Keep in a dry, cool place, away from direct sunlight.

Dosage and usage instructions:

Dairy cows: 5 to 10 grams per day

Suckling calves: 2 to 4 grams per day

Lambs and kids (young goats) : 0.5 to 1 gram per day



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The term "Hemend" is an ancient root of the word (Hamun), which means plain and meadow, representing the landscape of nature, pastureland free from modern concerns where livestock graze

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