Actisaf® is a thermostable live yeast concentrate, selected especially for animal nutrition for more than 30 years by Lesaffre research. The Lesaffre group is a reference in the field of yeast. Particularly well-known for our contributions to the bread-making, brewery and wine-making industries, we also specialize in human and animal nutrition and health care.

Working at the crossroads of nutrition and health, Phileo is committed to delivering innovative evidence-based solutions for improving ruminant health and performance. In every country, our progress is led by the most advanced science as well as practical on-farm experience. Phileo also has a platform in Toulouse, The Farm, dedicated to knowledge sharing and scientific expertise.

To guarantee optimum quality, the Sc 47 strain is carefully grown and transformed into microspherules in compliance with a patented process, in the world’s largest yeast production factory, located in Marcq-en-Baroeul in northern France.

In Europe, Actisaf® is the live yeast authorized for the most species (cattle, small ruminants, pigs, horses and rabbits) and production stages, and it is covered by more than 11 registration dossiers.
There is a close correlation between rumen pH and redox potential ($E_h$). The pH is used to evaluate rumen acidosis. The $E_h$ reflects the activity and growth of rumen microbiota and varies according to the biochemical reactions taking place. The lower the $E_h$, the better the balance.

**3-Stage Mode of Action on Rumen Function**

**1. Improving Rumen Reducing Conditions**

Actisaf® decreases the redox potential, thereby optimizing rumen function efficiency.

**2. Stimulating Fibrolytic and Lactate-Utilizing Bacteria**

Supplementation with Actisaf® significantly reduces the amount of lactate in the rumen, leading to a significant increase in the pH.

**3. Increasing the pH to Reduce the Risk of Acidosis**

Actisaf® acts on the flora balance, having an effect on pH equivalent to the buffer capacity of 150 g of bicarbonate.

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Scan this code to watch the video and find out more on rumen balance:

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**IMPROVING FEED DIGESTIBILITY AND HARMONIZING HERD PERFORMANCE**

### Assimilation of fibre

Reducing the redox potential with Actisaf® stimulates fibrolytic bacteria for better feed digestibility.

![Digestibility graph](image)

- **Neutral Detergent Fibre**
  - Control: 30%
  - Actisaf®: 41%*
  - Bicarbonate: 37%

- **Acid Detergent Fibre**
  - Control: 20%
  - Actisaf®: 77%*
  - Bicarbonate: 45%

*\( p < 0.05 \)

### Assimilation of feed

- fewer undigested particles in the dung (grains, fibre)
- more homogenous dungs

### Herd performance

Actisaf® has a stabilizing effect on the rumen environment, significantly homogenizing rumen bacterial populations in the herd.

![Herd performance graph](image)

### Nutritional concentration

- **Fat**
  - Control: 1246 g/animal/d
  - Actisaf®: 1304 g/animal/d

- **Protein**
  - Control: 972 g/animal/d
  - Actisaf®: 1012 g/animal/d

### Milk production

Actisaf® increases milk production by 1.9 kg/d on average.

![Milk production graph](image)

### Milk quality

Improving and stabilizing the rumen function helps to improve animals' overall health status, resulting in lower cellular levels in milk.

![Milk quality graph](image)
# BENEFITS FROM BIRTH TO LACTATION

## Modes of Action and Benefits

**Calf**
- Developing rumen microflora
- Establishing rumen function early on
- Assisting growth

**Heifer**

**Lactating Cow**
- Stabilizing rumen microflora
- Maintaining production
- Assimilation of fibre
- Butterfat content
- Thermal comfort
- Impact of stress
- Risk of acidosis
- Feed efficiency
- Milk production and quality
- Somatic cells

**Dry Cow**
- Passive immunity transfer from cow to calf

## Dosage

<table>
<thead>
<tr>
<th>CALF</th>
<th>HEIFER</th>
<th>LACTATING COW</th>
<th>DRY COW (to prepare for calving)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2 g/animal/d*</td>
<td>5 to 10 g/animal/d*</td>
<td>5 g/animal/d</td>
<td></td>
</tr>
</tbody>
</table>

## Management of high-risk periods

- Feed transition
- Turnout and grazing
- Heat stress

## Rumen balance and milk production

- Risk of acidosis
- Feed efficiency
- Milk production and quality
- Somatic cells

## ZOO-TECHNICAL RESULTS

<table>
<thead>
<tr>
<th>CALF</th>
<th>HEIFER</th>
<th>LACTATING COW</th>
<th>DRY COW (to prepare for calving)</th>
</tr>
</thead>
<tbody>
<tr>
<td>+18% ADG</td>
<td>+1.9 kg of milk/cow/d</td>
<td>+15% IgG in the colostrum*</td>
<td></td>
</tr>
<tr>
<td>-15% FCR</td>
<td>+5 to 10% protein</td>
<td>+39% calf serum IgG*</td>
<td></td>
</tr>
<tr>
<td></td>
<td>+5 to 10% fat</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Minimum European registration doses:*
- Calf: 0.5 g/animal/d
- Dairy cow: 1 g/animal/d
- 1 g of Actisaf® = 10 billion CFU

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Phileo developed its “Program Neonate” and “Program Heat Stress” smartphone apps to help dairy farmers evaluate the overall ROI of these programs. They take into consideration a farm’s size and performance criteria.

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6- European Actisaf® registration dossier for calves.
7- Comparative field trial summary. Data on file.

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**Phileo**

LESAFFRE ANIMAL CARE