

# ActiSaf 🕌

- Live yeast concentrate
- Exclusive Saccharomyces cerevisiae Sc 47 strain
- High thermostability in pelleted feed: up to 92°C



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.

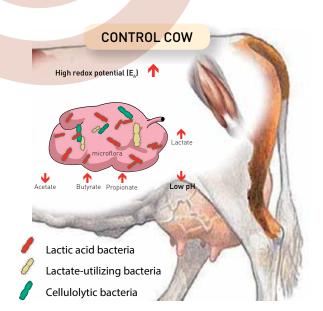


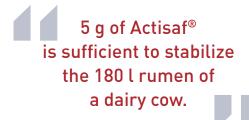
In Europe, Actisaf® is the live yeast authorized for the most species (cattle, small ruminants, pigs, horses and rabbits) and production stages, and it is covered by more than 11 registration dossiers.

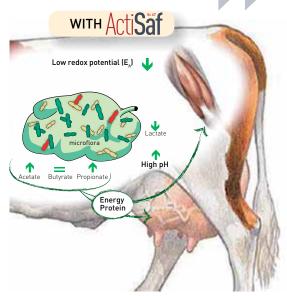
## ActiSaf

### 3-STAGE MODE OF ACTION ON RUMEN FUNCTION

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.







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

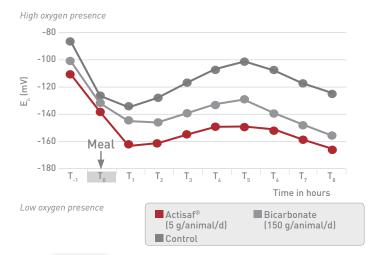






#### Improving rumen reducing conditions<sup>1</sup>

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

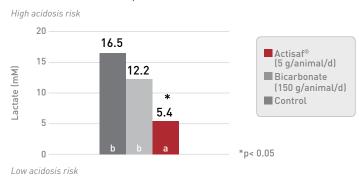






#### Stimulating fibrolytic and lactateutilizing bacteria<sup>1</sup>

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

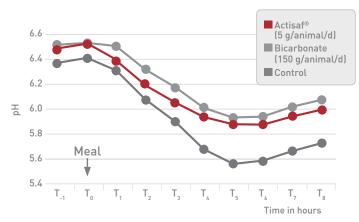






#### Increasing the pH to reduce the risk of acidosis¹

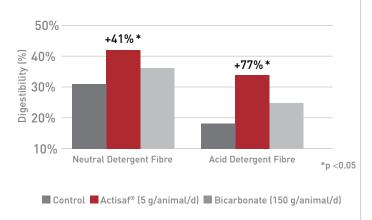
Actisaf® acts on the flora balance, having an effect on pH equivalent to the buffer capacity of 150 g of bicarbonate.



#### IMPROVING FEED DIGESTIBILITY AND HARMONIZING HERD **PERFORMANCE**

#### ↑ Assimilation of fibre<sup>1</sup>

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



#### Assimilation of feed

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



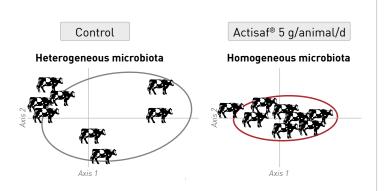
Control period



Period of Actisaf® use

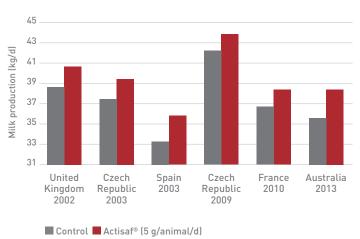
#### ↑ Herd performance<sup>2</sup>

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

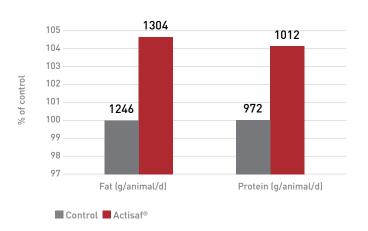


#### IMPROVING MILK PRODUCTION AND QUALITY

Actisaf® increases milk production ↑ Milk production<sup>3</sup> by 1.9 kg/d on average.

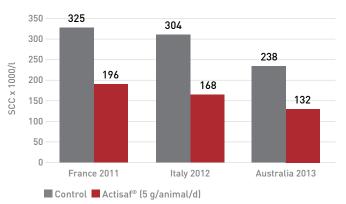


#### ↑ Nutritional concentration<sup>4</sup>



#### ↑ Milk quality<sup>5</sup>

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



<sup>2-</sup> Julien, C., Cauquil, L., Combes, S., Bouchez, O., Marden, J.P., Bayourthe, C. 2012. Study of the effect of Live Yeast Saccharomyces cerevisiae (CNCM I-4407) on ruminal quencing. 8° INRA-RRI symposium, 17-20 June 2012, Clermont-Ferrand, France. Principal Component Analysis based on the relative abundance of 177 identified genera. 3- Data on file. siae (CNCM I-4407) on ruminal bacterial community in lactating dairy cows using 454 GS FLX pyrose-

<sup>4-</sup> European registration trials - 1 505 dairy cows. 5- Data on file.



#### BENEFITS FROM BIRTH TO LACTATION





**DRYING OFF** 



	CALF HEIFER	LACTATING COW	DRY COW (to prepare for calving)
DOSAGE	1 to 2 g/animal/d*	5 to 10 g/animal/d*	5 g/animal/d
MODES OF ACTION AND BENEFITS	<ul> <li>Developping rumen microflora</li> <li>Establishing rumen function early on</li> <li>Assisting growth</li> </ul>	Management of high-risk periods	↑ Passive immunity transfer from cow to calf
		Feed • Stabilizing rumen microflora transition • Maintaining production	
		Turnout and grazing  ↑ Assimilation of fibre  ↑ Butterfat content	
		↑ Thermal comfort  Umpact of stress	
		Rumen balance and milk production	
		◆ Risk of acidosis	
		↑ Feed efficiency	
		↑ Milk production and quality	
		◆ Somatic cells	
Z00- TECHNICAL RESULTS	+18% ADG -15% FCR <sup>6</sup>	+1.9 kg of milk/cow/d +5 to 10% protein +5 to 10% fat <sup>7</sup>	+15% IgG in the colostrum <sup>8</sup>
			+39% calf serum IgG <sup>9</sup>

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









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.

- 6- European Actisaf® registration dossier for calves. 7- Comparative field trial summary. Data on file.
- 8- Marden et al. 2013. Impact of supplementing a yeast-based product during dry period in post-calving dairy cows. International Symposium, Prague.
  9- Rodriguez Quiros, 2008. Effect of supplementing the feed of Holstein cows with live yeast (Actisaf®) on the concentration of IgG in the colostrum and the blood of
- new-born calves. Thesis.

137, rue Gabriel Péri – BP 3029 59703 Marcq-en-Baroeul - France Tel.: +33 320 81 61 00 - Fax: +33 320 99 94 82

