



**Anavrin**<sup>®</sup>  
INNOVATION BY NATURE

Inspired by nature,  
to sustain nature.



## What is ANAVRIN®

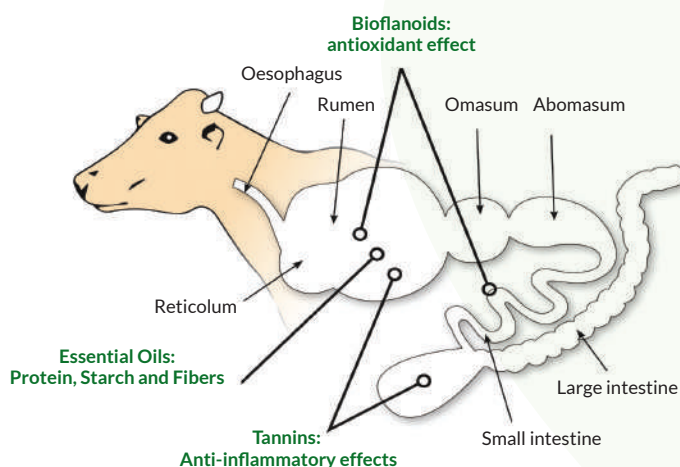
ANAVRIN® is a blend of essential oils, tannins and bioflavonoids, natural and nature-identical substances which have been carefully selected to support and improve the ruminal function. Essential oils play an important role in the growth kinetics of certain bacteria. Tannins have positive effects on protein metabolism and are anti-inflammatory. Bioflavonoids act as anti-oxidants. By keeping a stable ruminal environment by controlling the growth of bacteria, ANAVRIN® improves ruminants' zoo-technical performance.

The loss of energy caused by the natural production of methane during the digestion of starch and fibre is a major economic factor both for dairy farmers and meat producers as well as for the environment.

University studies and field studies have confirmed that ANAVRIN® can be one of concrete solution which nutritionists and cattle breeders can use to improve the performance of animals in

*\* Dependent on animal age and health, breed, feed regime, farm condition.*

terms of yield, while reducing the methane emissions responsible for global warming\*.



- Significant increase in milk and meat production.
- Significant decrease in CH<sub>4</sub> and CO<sub>2</sub> emissions.\*
- More efficient use of nutrients.
- 9 years' research carried out in conjunction with universities and major farming businesses around the world.
- The product has been used successfully on about 500,000 cattle to date.
- Reduced use of antibiotics.



## Anavrin®

- We only use natural raw materials and ingredients as well as nature-identical substances.
- We use the most sophisticated production and industrial technologies exclusively developed in Switzerland.
- We operate all over the world through a widespread sales network.
- We have an in-depth knowledge of the international bovine market.

## We help nature

In vitro and in vivo research carried out by the University of Sassari, the University of Milan and the Federal University of Santa Maria in Brazil have confirmed that the correct use of ANAVRIN® can reduce methane emissions from cattle by between 13% and 20%\*.

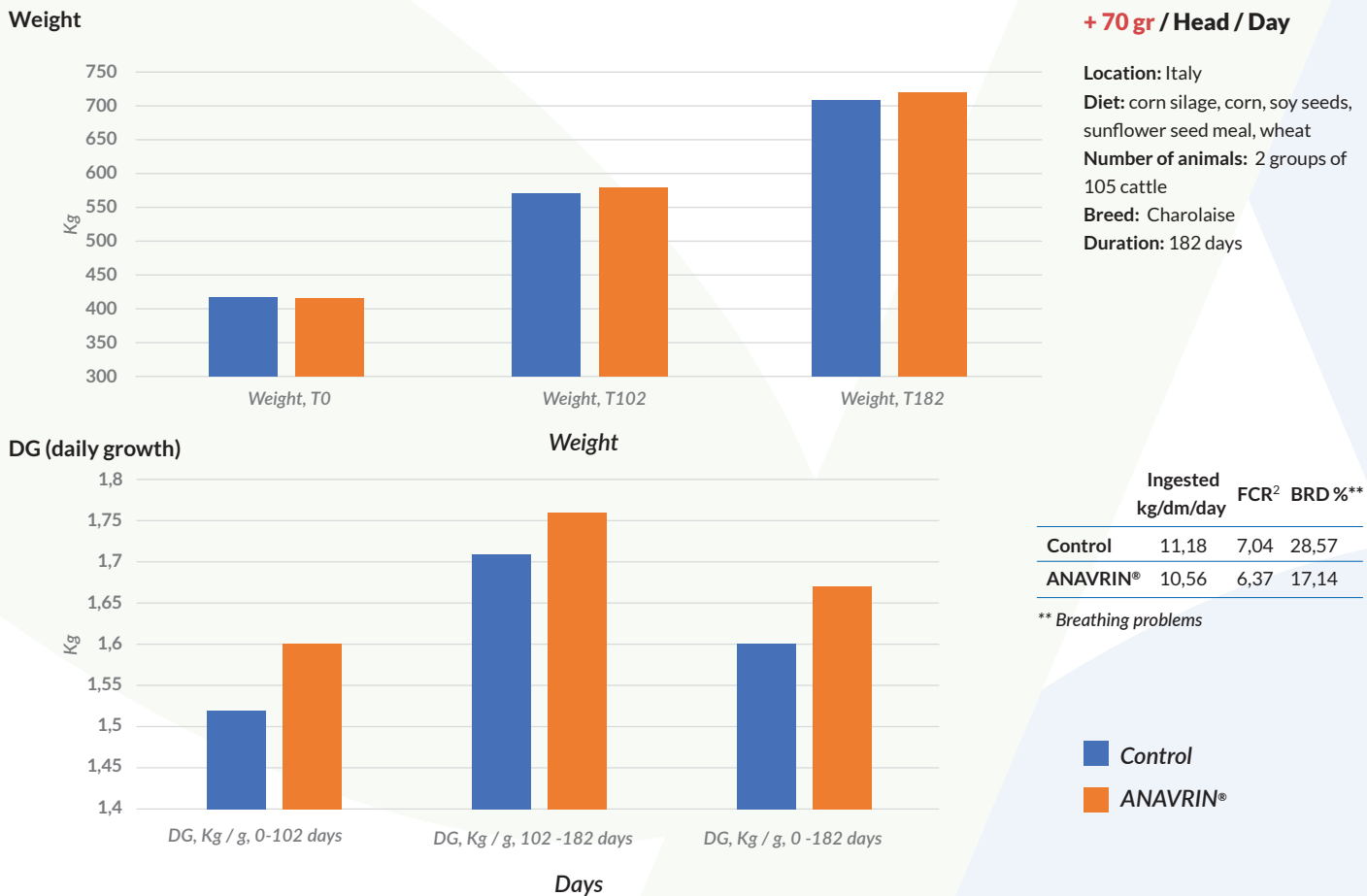
# Increased meat production



University studies and field studies have shown that the correct use of ANAVRIN® can increase meat production in cattle by 70 grams per day.

## MEAT

Field study carried out in conjunction with the company Oltre and supervised by Professor Carlo Sgoifo Rossi of the University of Milan



## ANAVRIN®, Monensin, or both? Effects on performance and ruminal fermentation in beef cattle

Item	ANAVRIN®	MON <sup>1</sup>	ANAVRIN® + MON <sup>1</sup>
DMI, kg/d	12.3	11.8	11.3
<i>Performance</i>			
Initial BW, kg	447.1	440.9	435.9
Final BW, kg	534.7	519.8	516.3
DG, kg, 60d	1.5	1.3	1.4
FE, kg DMI/kg DG	8.7	9.1	8.9
<i>Rumen fermentation</i>			
pH	6.0	5.8	5.9
VFA, mM	127.3	123.4	119.4
Acetic, mM	67.0	63.6	56.3
Propionic, mM	44.2	42.6	49.7
Butyric, mM	16.2	18.4	14.4
Acetic, %	53.7	50.1	47.4
Propionic, %	33.3	34.9	42.1
Butyric, %	13.0	14.7	11.5
Acetic/Propionic	1.7	1.5	1.1
NH <sub>3</sub> , mg/dl	32.8	26.3	22.9

## + 200 gr / Head / Day

Location: University of Montevideo, Uruguay  
Number of cattle: 30  
Duration: 60 days  
Diet: TMR (65% DM, 12.8% CP, 23% NDF)

<sup>1</sup> Monensin

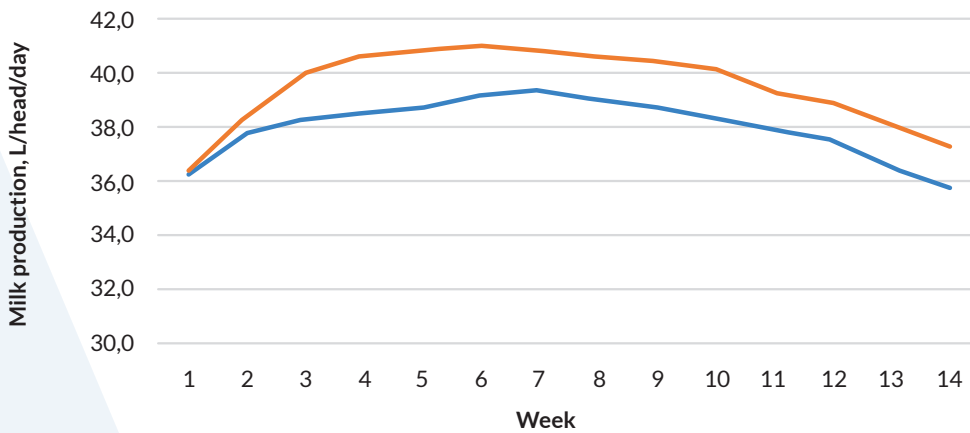
In terms of health conditions, ANAVRIN® supplemented cattle show less morbidity from respiratory diseases and better antioxidant capacity.

# Increased milk production



University studies and field studies have shown that the correct use of ANAVRIN® can increase milk production in cattle by 1.5 litres per day.

**AVERAGE MILK PRODUCTION PER WEEK IN THE TWO TEST GROUPS**



**+ 1.5 l / Head / Day**

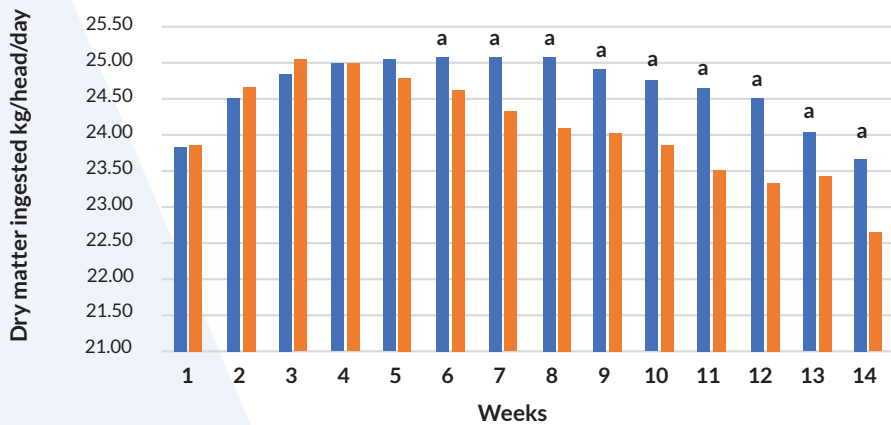


Chart from *Animals* 2022, 12, 728

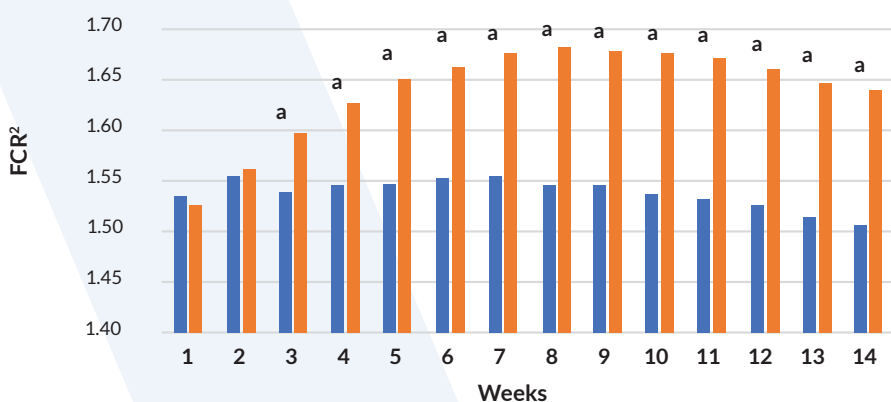
Location: Lodi (Italy)  
 Quantity: 140 dairy cattle  
 Breed: Holstein  
 Duration: 100 days  
 Diet: corn silage, hay, grass, wheat silage, cornmeal, soy

Control      ANAVRIN®

**DRY MATTER INGESTED PER WEEK**



**DRY MATTER CONVERSION RATIO**



■ Control  
 ■ ANAVRIN®

Group

	Control	ANAVRIN®
<b>Production Performance</b>		
Milk yield, kg/head/day	36.90 ± 0.23	38.30 ± 0.23
Energy-corrected milk, kg/head/day	38.30 ± 0.52	40.2 ± 0.52
Dry matter ingested, kg/head/day	24.70 ± 0.08	24.10 ± 0.08
FCR <sup>2</sup>	1.49 ± 0.01	1.58 ± 0.01

Characteristics of Milk, Month of Study

	1st Month (August)	2nd Month (September)	3rd Month (October)
Somatic cells, x.000			
Control	135.80 ± 3.45	150.09 ± 3.45	144.60 ± 3.45
ANAVRIN®	128.22 ± 3.45	141.75 ± 3.45	136.69 ± 3.45

<sup>2</sup>Feed conversion rate



## About us

**VetosEurope** was founded 9 years ago by combining the expertise and savoir faire of one of the most important families in the world in live cattle trade and the technical and scientific knowledge with a group of scientists and researchers specialized in the research and development of **natural** feed supplements and nature-identical substances for cattle, aimed at increasing production while at the same time reducing **CH<sub>4</sub>** and **CO<sub>2</sub>** emissions.

## Our research

Having given their own cattle feed supplements in recent years to a large proportion of the cattle they export around the world either by road or by sea, the partners decided to sell them all over the world with a view to contributing, among other things, to the reduction of **CO<sub>2</sub>** emissions from cattle.

The success of our product is evidenced by the fact that **almost 500,000 cattle have been using it for the last 9 years** in a number of countries around the world and is backed up by 20 scientific research projects carried out in laboratories and in the field which have confirmed its performance and its inhibitory characteristics.

Our research into an innovative technology aimed at protecting the environment by using nature has led to the creation of **ANAVRIN®**.



#### HEADQUARTERS

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Certified GMP+



#### Legal notice

Scientific studies and publications relating to our product ANAVRIN should not be construed as claims.  
Regulations to use the product vary depending on the local standards applicable in each country. For further information, please contact the Company or distributor.