

INGREDIENTS RANGE  
FOR ANIMAL NUTRITION

**BICARBONATE FEED**  
**NOVAFEED**  
**NOVAFEED SA**  
**SODAFEED**



QUALITY FIRST TO GAIN YOUR SATISFACTION

# INGREDIENTS RANGE FOR ANIMAL NUTRITION



## POSITIVE EFFECT ON FEED CONSUMPTION AND MILK PRODUCTION

### SODIUM SUPPLY

### ANTI-ACIDOSIS

### OPTIMAL DIETARY ELECTROLYTE BALANCE

Novafeed is a buffer combination suitable in cow feed and efficient to replace sodium bicarbonate with no change in the ration formulation. Since 2 years, an aromatized grade of this product is also available: Novafeed SA. Two on-field assessments of Novafeed and Novafeed SA have been done in 2014 and 2015 with European experts of ruminant nutrition. The aim was to compare these 2 products to standard sodium bicarbonate (Bicarbonate Feed) in terms of palatability, feed consumption and performances (milk production) with high production dairy cows.



**NOVAFEED & BICARBONATE FEED**

## 2 PROVEN SOLUTIONS AGAINST ACIDOSIS OF DAIRY COWS

The results demonstrate that the use of Novafeed and Novafeed SA in the feed ration induces equal or higher performances compared to standard sodium carbonate for:

- | Palatability
- | Feed consumption
- | Ruminal pH
- | Milk production



**NaHCO<sub>3</sub>** (EU Reg n° 242/2010) is classified as a feed raw material.

**NaHCO<sub>3</sub>** is approved for use in organic farming (EU Reg n° 2092/91) and is used by producers of animal feed and mineral & vitamin supplements, to complement rations of dairy cows.

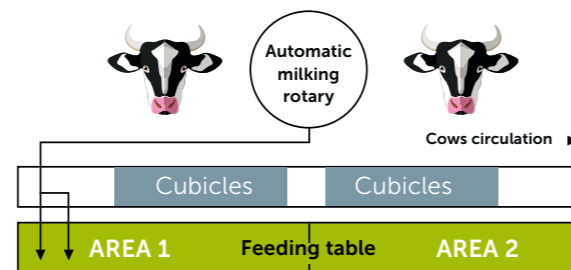
## 2014 ON-FIELD TEST (FRANCE)

### Experimental conditions:

Dairy herd of 65 high production cows (10700 kg/year), raw matter consumption recorded during 2 x 5 weeks.

Feeding table divided in 2 areas (Ad Libitum feed):

- | Area 1 with addition of Bicarbonate Feed, 1% incorporation rate in dry matter.
- | Area 2 with addition of Novafeed, 1% incorporation rate in dry matter.



**PRODUCT RANGE**

- 3 buffer minerals
  - | Bicarbonate Feed
  - | Novafeed
  - | Novafeed SA
- 1 basic mineral
  - | Sodafeed

## 2015 ON-FIELD TEST (EUROPE)

### Experimental conditions:

Dairy herd of 325 high production cows (14000 to 18000kg/year), data recorded during 2 x 5 weeks: raw matter consumption, intra-ruminal pH (via bolus), milk production.

2 feeding groups (Ad Libitum feed):

- | Feeding group 1: with addition of Bicarbonate Feed, 1% incorporation rate in dry matter
- | Feeding group 2: with addition of Novafeed for 5 weeks and Novafeed SA for 5 weeks, 1% incorporation rate in dry matter.

### On-field results

	Bicarbonate Feed	Novafeed / Novafeed SA
Customer satisfaction	Easy to use, storage in a cool & dry place	Easy to use, storage in a cool & dry place <b>For Novafeed SA: 100% satisfaction 95% recommendation</b> (survey among 100 breeders)
Milk production	Optimum	Optimum
DCAD	+ 11700mEq/kg dry Bicarbonate Feed	+ 11900mEq/kg dry Novafeed ↗
Buffer capacity (pH=6)	8800 mEq/kg (in vitro, pH=6) Ruminal pH with sub-acidosis periods (pH< 6 about 8h/day, bolus in vivo)	9300 mEq/kg (in vitro, pH=6) ↗ <b>No sub-acidosis period (bolus in vivo)</b>
Sodium content	27.2%	27.4%
Palatability / feed consumption	Good	Equal or superior <b>+10% feed consumption</b>

## A WIDE PRODUCT RANGE FOR ANIMAL NUTRITION

	Bicarbonate Feed N	Bicarbonate Feed Granular	Novafeed	Novafeed SA	Sodafeed
Average diameter d50 in µm	150	550	80	80	500
Sodium bicarbonate (NaHCO <sub>3</sub> ) in %	≥ 99.0	≥ 99.0	> 82.0	> 82.0	-
Sodium content in %	27.2	27.2	27.4	27.4	43.2
Packaging	25kg bags 1.1t big bags Bulk 25t	Bulk 25t	25kg bags 1.1t big bags Bulk 25t	25kg bags	25kg bags 1.25t big bags Bulk 25t





# NOVACARB = RESPONSIVENESS + RELIABILITY + QUALITY



Feed Chain Alliance

*Together for safety and quality.*

## NOVACARB = RESPONSIVENESS

Novacarb is a French producer of Sodium Bicarbonate and Sodium Carbonate based in Lorraine in the North East of France. This location enables a strong presence on the international market for the segments of Food, Feed, Pharmaceuticals, Environment Protection, Glass Industry, Laundry and Detergents Industry.

## NOVACARB = RELIABILITY

Novacarb is a modern company with a staff of 300 motivated and well-trained employees. The passion for quality and the satisfaction of our customers' needs are our main goals. This is true since 1855 with the beginning of our industrial activity. Novacarb is a subsidiary of the international Chemicals group NOVACAP.

## NOVACARB = QUALITY

Novacarb has ISO 9001, ISO 14001, ISO 50001, GMP Excipients and OHSAS 18001 certifications and belongs to the worldwide Responsible Care® charta. We have implemented the HACCP methodology in all of our processes. Our products are also Kosher and Halal certified. Furthermore, we promote sustainable development in the daily life.

For further information, please contact: \_\_\_\_\_

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