



FARM-O-SAN

Farm-O-San
portfolio for ruminants

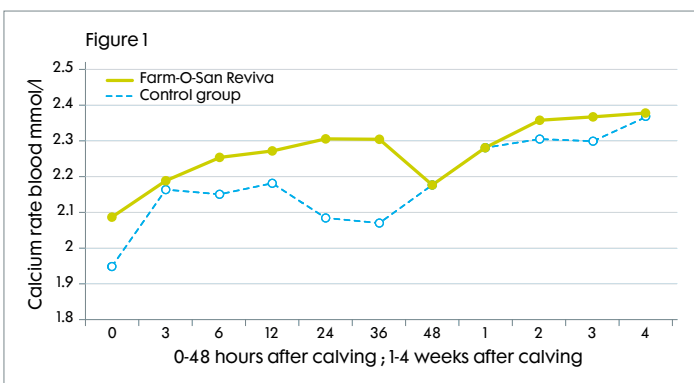
Farm-O-San Reviva

The orange energy boost for recovery after calving



Farm-O-San Reviva will keep her on her feet

Reviva contains the electrolytes, calcium and energy the cow needs to restore her balance as soon as possible after calving. Reviva stimulates dry matter intake and increases blood calcium levels in the freshly calved cow, which contributes to a good start of milk production and improves health (see figures 1 and 2).



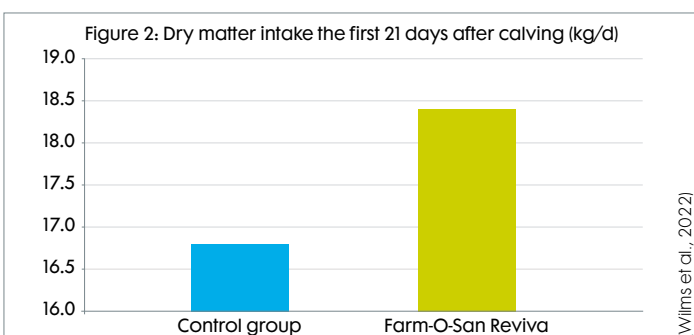
Keeping cows healthy after calving isn't easy

All the metabolic changes that occur around calving can have a negative impact on a cow's health and result in a poor start of lactation. Directly after calving, cows can be dehydrated, have low blood calcium levels and a negative energy balance.

A lactation-long benefit

Practice proves that Reviva really does work in the long run. In a Dutch study (2019), 240 cows were given a one-time dose of Reviva. Over the entire lactation, these cows produced 0.78kg/day on average significantly more milk than predicted.

A recent study showed that cows that received Reviva in the first 21 days of lactation lost an average of 13.5kg less weight.



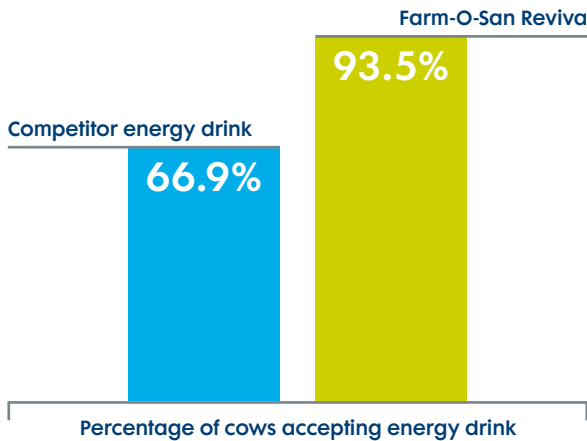
Reviva is not only healthy but tasty too

Reviva is enriched with a flavouring agent, which makes it highly palatable to cattle. In practice, it's clear that cows love Reviva, drinking it spontaneously and eagerly.

In a trial involving a total of 440 cows, 222 were offered Reviva and 218 were offered a competitor product. As figure 3 shows, Reviva was found to be extremely palatable.

Other trials carried out with Reviva also showed a 100% spontaneous uptake.

Figure 3



Percentage of cows accepting Farm-O-San Reviva versus a competitor energy drink directly after calving.



"To us a successful calving is a cow back in the milking herd quickly with minimal metabolic problems and able to start producing within a short period. As soon as they calve we want to get them rehydrated and eating as quickly as possible. The first thing all cows get is Trouw Nutrition's Farm-O-San Reviva for effective rehydration followed by a feed of the milking ration to stimulate rumen function."

Mark Whitehurst
Hawsmoor Farm, Market Drayton

Directions for use

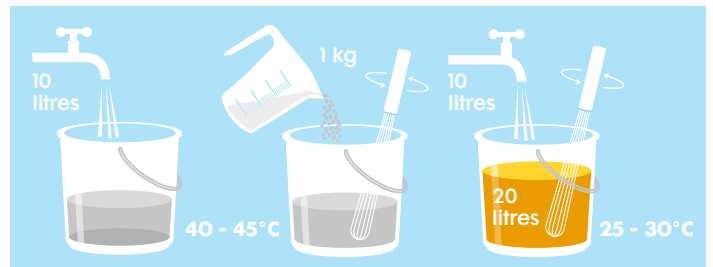
Read the information on the product label for full instructions on product usage.

Mix at the rate of 50g per litre of water. Mix 1kg of Reviva powder with 10 litres of hot water (40-45°C). The solution will turn orange. Once dissolved, add 10 litres of cold water to achieve a drinking temperature around 25-30°C.

Provide 20 litres of the lukewarm Reviva solution to the cow once within 30 minutes after calving and before it is given free access to water.

A further drink of Reviva may be offered after 24 hours if the cow is still weak or appetite is poor.

Due to its higher content of vitamin D3 compared to complete feeds, Reviva cannot be fed at more than 1.5kg per cow per day.



Composition	Per kg of product
Dextrose	31.5%
Sodium bicarbonate	5.0%
Calcium	4.4%
Sodium chloride	7.5%
Vitamin A	80,000 IU
Vitamin D3	18,150 IU
Vitamin E	2700 IU
Iron	200 mg
Manganese	134.4 mg
Selenium	1.4 mg
Saccharomyces cerevisiae	0.6 mg
β-Carotene	200 mg

General information

Feed type:	Feed supplement for dairy cows
Packaging:	7 or 20kg bucket
Shelf life:	24 months
Storage conditions:	Store in a cool, dark, dry place and in sealed packaging



Farm-O-San Pulmosure

Facilitates breathing in calves



Better breathing for a healthy future

Pulmosure is a complementary feed for calves, containing an essential oil that supports breathing and clearing of the airways. Pulmosure also contains a natural form of vitamin E and organically bound selenium to support immune function.

Maintaining good respiratory health is of the utmost importance to ensure a calf reaches its potential

The respiratory system of beef and dairy calves is very vulnerable:

- Lungs finish developing relatively late in life; only when the calf is two years old are the lungs fully mature. As a result, they have very little reserve capacity.
- Calf airways are relatively narrow, so get easily blocked.
- Calf lungs are heavily segmented, and each segment has only one entry point for the airways. If that entry point is blocked, the entire segment does not function any more.

The calf first increases mucus production which helps it to clear its airways. This is why calves often have a runny nose. If the calf fails to clear the airways this way, it is time to act.



How does Pulmosure benefit calves?

The respiratory tract of calves is challenged the most from the fourth to sixth weeks of life onwards, sometimes up to 10 months of age. Changing weather conditions, high humidity (>80%), large temperature differences between day and night and a poor housing climate may have a negative effect on the condition of the airways of calves. Inadequate ventilation, crowded housing, mixing calves from different sources and transportation may result in a decrease in the calves' respiratory condition.

The function of eucalyptus oil

The use of eucalyptus oil in animal production has proven to be valuable. A study by Soltan (2009) showed several beneficial effects of using eucalyptus oil on animal health and production during the pre- and post-weaning periods for calves.

The Farm-O-San Pulmosure range

Act quickly to facilitate easy breathing. Pulmosure is available in a variety of formats to best suit how the farmer wants to offer it to their calves.



Pulmosure

Offer either mixed in the feed or as top dressing.

Feed 12.5g per 100kg of bodyweight daily for a period of 1-3 weeks.



Pulmosure S

Offer mixed into milk.

Feed 10g per 100kg of bodyweight daily for a period of 1-3 weeks.



Maxcare Cattle + Pulmofit

Specially formulated molassed lick bucket for calves and youngstock at risk of respiratory disease.

Contains Pulmosure; a blend of essential oils that support breathing and the clearing of airways.

Farm-O-San Pro-Keto

Make a healthy investment
during early lactation



Farm-O-San Pro-Keto

Pro-Keto is a dietetic feed to reduce the risk of ketosis. It is a liquid product containing propylene glycol and glycerol, two sources of glucogenic energy in combination with a number of vitamins and minerals and two flavouring agents. It can be mixed with TMR or added to crib feed with a dosing device.



The energy balance challenge and the risk of sub-clinical ketosis

Cows reach their peak lactation at about 4-8 weeks after calving. Dry Matter Intake (DMI) does not increase at an equal pace; the peak in DMI is usually reached 6-8 weeks later. As a result, cows are in negative energy balance for the first three months after calving. This can result in clinical or in sub-clinical ketosis, which in turn reduces milk production and fertility and makes cows more vulnerable to disease.

Providing glucogenic energy with Pro-Keto

It is important to provide sufficient levels of glucogenic energy to cows during the period they are in negative energy balance. Pro-Keto includes all essential ingredients for a good start of lactation. Niacin and vitamin B12 improve energy utilisation and choline supports proper functioning of the liver. 150ml of Pro-Keto can be administered per day to help boost the glucogenic energy.

Directions for use

Use Pro-Keto during the first 3-6 weeks of lactation. Administer 100-125ml twice daily as topdressing on feed, or by automatic liquid dosing unit. In an acute case of ketosis, administer 250ml Pro-Keto twice daily.

Composition	Per kg of product
Propylene glycol and glycerol	
Vitamin E	2500 IU
Vitamin B12	100 µg
Niacin	7425 mg
Choline	10,000 mg
Zinc	1000 mg

General information

Feed type:	Dietetic feed supplement for dairy cows to reduce the risk of ketosis
Packaging:	5 and 20 litre cans 200kg drum 1000kg IBC Also available as Pro-Keto Dry: 25kg bag
Shelf life:	12 months
Storage conditions:	Store in a cool, dark, dry place and in sealed packaging

FARM-O-SAN



Farm-O-San is a brand of Trouw Nutrition, a Nutreco company.

Trouw Nutrition is a global leader in innovative feed specialities, premixes and technical services for animal nutrition. Quality, innovation and sustainability are the guiding principles behind everything we do – from research and raw material procurement, to the delivery of cutting-edge products and services for agriculture.

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