

Fertility bolus



Article number
102053

Dietetic mineral feed

Animal species
dairy cows

Content
12 pieces x 100 g

GMP+ FSA assured
GMO controlled
PDV103322

Fertility of dairy cattle

Good fertility is the foundation of a healthy and sustainable cattle herd. At the same time, it's a complex subject that depends on many factors, such as breed, housing system, production levels, stress levels, season, etc. And of course the farmer plays a major role in all this too. One key factor here is signalling when the cows are in heat, and the related time of insemination. If too little time and attention is given to this, the calving interval will increase, more problem cows will be created, and the cost of insemination rises.

Feed

Nutrition obviously also plays an important role in fertility. Especially when it comes to insemination (first stage of lactation), many cows suffer from a lack of energy. This then has a negative effect on fertility, with cows showing less obvious heat signals, more sluggish and with the quality of the egg cells under pressure (Veehouder en Veearts, 2016). In terms of the feed itself, trace elements also play an important role in fertility (Siciliano-Jones et al. 2008). Studies show that a shortage of trace elements – including iodine, copper and selenium – has a direct or indirect negative effect on fertility (NRC 2001). This also applies to a number of vitamins, especially due to their role as antioxidants (Spears 2008). To conclude, a healthy fertility situation at a dairy cattle farm depends on many factors, with the management and nutrition, as well as the related immune status, being the deciding factors.

Topro Fertility

Topro Fertility has been developed to support the preparation for oestrus and reproduction. This bolus provides the animal with important trace elements, vitamins and various plant extracts over an 8-day period. Besides the most important trace elements, whereby chelates are also used, vitamins A, E and beta carotene have been added. It is known that in addition to being an antioxidant, the latter also has a positive effect on the production of progesterone and oestrogen. These are two important hormones that are essential for good fertility (DSM 2017). A number

of the added herbal extracts are known to have an antibacterial effect, to activate the release of hormones, to influence energy levels and to have a positive effect on general immunity (Dairy cattle guide 2016, Groot et al. 2003). All in all, a wide spectrum bolus to support fertility.

Composition

Iron (ballast), vegetable fat from rapeseed, calcium stearate, Siberian Ginseng, ginger, Canadian fleabane, savory, red ginseng.



Fertility bolus

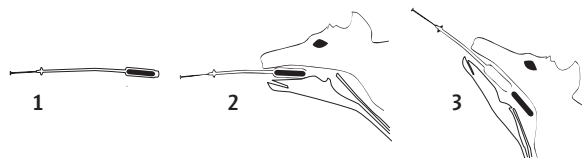
Nutritional additives	Daily release 1 bolus for 8 days
Iodine.....	77.5 mg
Cobalt.....	13 mg
Copper.....	187.5 mg
Copper.....	287.5 mg
Manganese.....	1,007.5 mg
Manganese.....	232.5 mg
Zinc.....	1,017.5 mg
Zinc.....	312.5 mg
Selenium.....	6.3 mg
Vitamin A.....	62,500 IU
Vitamin E.....	600 mg
Beta carotene.....	300 mg

Storage advice

Keep product cool, dry and out of reach of children.
Protect against frost.

Instructions for use

- Dairy cattle: 1 Fertility bolus 8-10 days before insemination.
- Suckler cows: 1 Fertility bolus 8-10 days before servicing or insemination.



- Do not administer to cows weighing less than 250 kg.
- Administer using a suitable bolus applicator.

Product characteristics

Herbal extracts	Antibacterial, influencing hormone release, positive influence on resistance and immunity
Trace elements	Important components of enzymes, vital antioxidants, supporting immunity
Vitamins	Important antioxidants
Beta carotene	Pro-vitamin A: supports development of healthy follicles, good for hormone production
Bolus	Gives the flexibility to treat certain cows and not treat other cows. Guaranteed absorption.

References

DSM (2017) presentation titled '*Optimale vitaminering bij melkvee: aandacht voor de transitie*', Dr. Inne Gantois, May 2017

M.J. Groot (2003) *Deskstudie alternatieve gezondheidszorg voor melkvee*, RIKILT Wageningen

NRC (2001) *Nutrient requirements of dairy cattle*: Seventh revised edition

J.L. Siciliano-Jones,* M.T. Socha,†1 D.J. Tomlinson,† and J.M. DeFrait† (2008) *Effect of Trace Mineral Source on Lactation Performance, Claw Integrity, and Fertility of Dairy Cattle*, Journal of Dairy Science Vol. 91 No. 5

J.W. Spears, W.P. Weiss (2008) *Role of antioxidants and trace elements in health and immunity of transition dairy cows*, The Veterinary Journal 70-76

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