Hoof bolus

Article number
102149

Dietetic mineral feed

Animal species
dairy cows

Content
12 pieces x 80 g

GMP+ FSA assured
GMO controlled
PDV103322

Claw health
Claw diseases are a common problem on (Dutch) dairy farms. Doctoral research suggests that approx. 80% of cows suffer claw problems at any given time through the year (Veeteelt 2010). This is visible in roughly a quarter of these animals as lameness. On average, the costs of claw diseases are estimated at €53 per cow present (Veeteelt 2010). Mortellaro's disease costs dairy farms the most, followed by sole ulcers and foot rot. Claw diseases have all sorts of effects, including reduced milk production, longer intercalving intervals, premature culling, etc. Studies show that claw diseases are number three in the list of reasons for the culling of dairy cows (Zijlstra et al. 2013). Plenty of reasons then for taking claw health seriously.

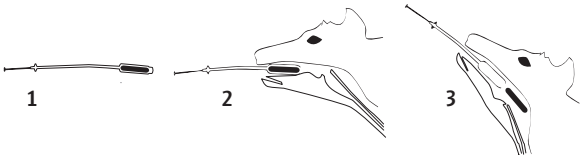
Feed
Nutrition has an important influence on claw quality. We know for example, that the structure of the ration and the availability of certain nutrients in the rumen is extremely important for healthy claws. However, minerals and trace elements also play a vital role. It is known that biotin and zinc are required for the formation of keratin. In turn, keratin is essential in guaranteeing hard hooves. Zinc also positively influences the skin and its recovery from damage, helping to reduce infectious claw diseases such as Mortellaro and foot rot.

Topro Hoof bolus
The Topro Hoof bolus has been developed to support the regeneration of trotters and skin. This bolus contains zinc, biotin and vitamin E. Part of the zinc is in chelate form, which makes the mineral more easily absorbable. Vitamin E is an important antioxidant, required for keratin production, which supports claw health. This bolus gradual releases vitamins and trace elements over 70 days.

Composition
Iron (ballast), magnesium oxide, vegetable fat from rapeseed, lignocellulose, calcium stearate.

Nutritional additives	Daily release 1 bolus for 70 days
Zinc	308 mg
Zinc	26 mg
Vitamin E	30 mg
Biotin	18.3 mg

Instructions for use
- Administer 1 bolus per animal
- Do not administer to cows weighing less than 250 kg. Do not administer 2 Hoof boluses at once. Administer using a suitable bolus applicator.



Topro: registered trademark of
Bio Enterprise B.V.
Sluiskolk 3, 7681 KC Vroomshoop NL
T 088 82 82 555 info@topro.nl www.topro.nl

Hoof bolus

Product characteristics

Zinc	Necessary for formation of keratin. Good for the skin.
Zinc chelate	Improved absorption when compared with zinc oxide.
Vitamin E	Important antioxidant and necessary for the enzyme formation for keratin production.
Biotin	Necessary for formation of keratin.
Bolus	Easy to administer. For individual use in problem cows. Slow release.

Literature references

Veeteelt August 2010. Inzicht in kosten klauwproblemen. *http://library.wur.nl/WebQuery/wurpubs/fulltext/149086*

Zijlstra J., Boer M., Buiting J., Colombijn-van der Wende K., Andringa E.A. (2013) *Routekaart levensduur – Eindrapport van het project verlenging levensduur melkvee,* Wageningen UR Livestock Research, report 668.

Topro: registered trademark of
Bio Enterprise B.V.
Sluiskolk 3, 7681 KC Vroomshoop NL
T 088 82 82 555 info@topro.nl www.topro.nl