

Ferro Bolus

The new way of providing iron!



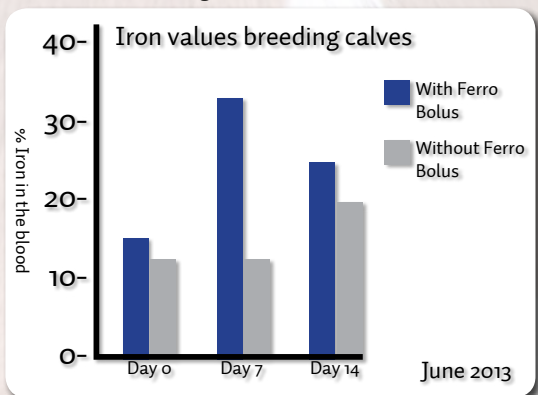
www.hollandanimalcare.nl

Providing iron is essential.

Studies at the University of Giessen (Germany) have shown that **20%** of calves is suffering from anemia at birth. In Holstein calves is that percentage even 30% (Veeteelt 2005). **42%** of the calves has a low concentrations of iron in the blood (Bostedt, 2002). Iron is necessary for the production of antibodies and to fight infections.

A lack of iron results in:

- * Moderate drinking (lack of appetite)
- * Dull hair.
- * Reduced vitality in the first stage of life.
- * Increased sensitivity for infections with diarrhea as result.
- * Lung problems.
- * Growth Problems.
- * Reduced resistance.



Increasingly an iron deficiency as a cause of disease (s) in calves. Blood tests that a possible iron deficiency could demonstrate, is however time-consuming and expensive. That is why professionals more often recommend providing each calf immediately after birth iron.

What is anemia?

With anemia there is a low level of hemoglobin (Hb) in the blood what could affect the immune system.

What causes anemia?

In newborn calves works the immune system minimal. Because there is to little iron in the diet, the body can record iron badly, there is a loss of iron (for example, blood loss) or a decreased production of blood cells. Therefore it is of importance that the calf gets the **correct nutrition** at the **right times**.

When we look at the percentage of Holstein-calves (30%) with an iron deficiency, is it essential to give an additional iron supplement!

Conclusion

The administration of 1 Ferro Bolus to calves (within 24 hours after birth) results in healthier and more vital calves therefore less susceptible to pathogens. Iron is also necessary for the production of antibodies, fighting infections. Ferro Bolus provides a broad availability of iron in the calf during degradation of Foetal hemoglobin (HbF) to adult hemoglobin (Hb). The iron that not directly is utilized is stored in the body (for example the liver).

With the Ferro Bolus you provide the correct iron in the right way!



Completely investigated and proven in practice!

Why the Ferro Bolus?

The Ferro Bolus contains a specially selected, easily absorbable iron form. The administration of a bolus instead of an iron injection to newborn calves gives less stress. An injection is painful and can result in an unwanted muscle discoloration. There is also the chance of an infection in and around the injection place.

Benefits Ferro Bolus:

- * Natural way of absorbing iron.
- * Overdosage is not possible, positive effect on immune system.
- * Provides the highest iron value in calves.
- * Gives no stress.
- * Gives no unwanted muscle discoloration and pain responses.
- * Gives no injection places.

Dosierung:

Newborn calves: 1 bolus administered orally within 24 hours after birth.
 Veal calves: 1 bolus orally at startup and / or after blood tests.

Composition: Calcium-Magnesium Carbonate, Gelatin.

Additives per kg:

Iron sulphate monohydrate -E1-	52.000 mg
Iron carbonate -E1-	50.000 mg
Iron lactate -E1-	27.500 mg
Vitamin A -E672-	5.000.000 IE
Vitamin B12	25.000 mcg
Vitamin C	50.000 mg
Vitamin E	50.000 mg





**The new way of
providing iron!**

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