



## GAMMULIN® | Functional Protein Supplement

FOR YOUNG CALVES

### Frequently Asked Questions

#### What is Gammulin?

Gammulin is a functional protein supplement for calves that is used on days 2–15 following birth, and for extra nutritional support in the face of other challenging conditions such as extreme weather. Gammulin should be mixed with whole milk or calf milk replacer.

#### How much Gammulin should be fed?

Gammulin will have its greatest impact when fed at the rate of 1 oz (28 g) per calf, per day, divided into two milk feedings. During periods of added or prolonged challenge, Gammulin should be increased to 2 oz (57 g) per calf, per day, divided into two milk feedings.

#### What happens if Gammulin is fed before the calf is 24 hours of age?

There is no harm in feeding Gammulin to a calf before 24 hours of age as long as it is fed at its normal feeding rate (up to 2 oz per calf, per day). There are certain minerals and vitamins in Gammulin that may be overfed if Gammulin is given at higher than normal levels in the first 24 hours of life. It is recommended to begin feeding Gammulin to calves on Day 2 or later.

#### Can Gammulin be fed to calves that are older than 15 days of age?

Yes. When stress continues beyond 15 days of age, continue feeding Gammulin for at least 1 week beyond the end of the challenge.

#### Does Gammulin have only functional proteins to offer the calf?

In addition to functional proteins, Gammulin also contains a special mixture of minerals, vitamins and oligosaccharides that can help with the nutritional needs of the calf in its first few weeks of life.

#### Should Gammulin be added to milk or milk replacer, or should it be mixed in water and fed separately to the calf?

Gammulin should be mixed with either pasteurized whole milk or milk replacer. The real benefit from feeding the functional proteins in Gammulin will come when they are fed at the same time as the milk feeding.

#### How well does Gammulin mix?

Gammulin is specially formulated to ensure easy mixing with milk or milk replacer. For best results, mix Gammulin into warm (105°F) milk or milk replacer and agitate by whisk or mechanical mixer until no lumps are seen. Do not mix Gammulin into hot (>140°F) milk or milk replacer, as high temperatures may damage the functional proteins in Gammulin.

#### Should Gammulin be fed twice a day or can I feed it just once a day to calves?

Gammulin should be mixed and fed to calves twice a day. The benefit of using functional proteins is maximized by feeding them each time the calf is offered milk or milk replacer.

#### What is the shelf life of Gammulin?

Gammulin has a 24-month shelf life when the product is stored unopened at room temperature in a dry place. Once exposed to air, the powder should be used within a few days. Once Gammulin is mixed with milk or milk replacer, it should be used immediately and never stored.

#### What makes Gammulin different from other supplements that are fed to calves?

No other calf nutritional supplement on the market has undergone the same extensive independent research as Gammulin, nor does any product have the level of repeat use by experienced calf raisers as Gammulin. Extensive research by APC, independent universities and many large calf operations has been published in peer-reviewed scientific journals. Gammulin is widely accepted as an effective and trustworthy product.

#### Why should I buy Gammulin over other products?

Gammulin is a proven performer that has been on the market for more than a decade, and is a must-have product on many “high challenge” calf operations across the U.S., such as veal operations where calf raisers have low tolerance for products that do not deliver results. In addition, Gammulin has been evaluated through several independent university research trials and results have repeatedly shown Gammulin to be an effective additive that should be routinely used in calves on Days 2-15 of life.