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# OPTIBEEF® FACTS

- Sarsaponin to reduce protozoa for improved VFA production and nitrogen retention.
- MOS for effective pathogen binding in the gut to reduce inflammation.
- Yeast culture metabolites to stimulate rumen microbes for nutrient digestibility.

### ► Product Description:

Get your cattle on feed faster and keep them healthy with Optibeef® from Natural Biologics.

Optibeef is an all-natural, highly concentrated product derived from *Saccharomyces cerevisiae* and *Yucca schidigera* extract. The biologically active glycosides and metabolites are highly effective at improving rumen

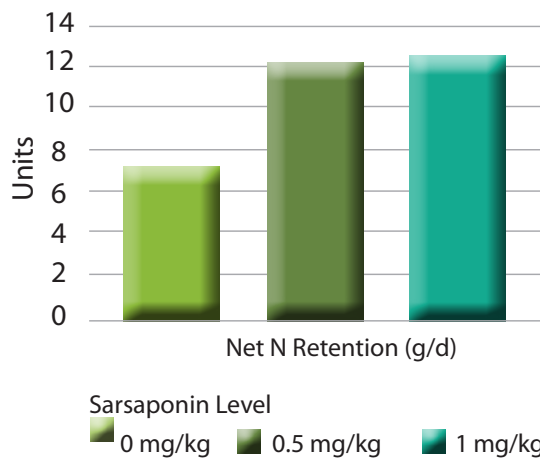
efficiency through increases in microbial protein and VFA production while reducing methane production.

The oligosaccharides are supporting the immune system directly while also reducing pathogen loads and inflammatory responses. Taken all together, Optibeef can help the animal retain nitrogen and energy for productive lean tissue growth.

### ► Look to the components in Optibeef to:

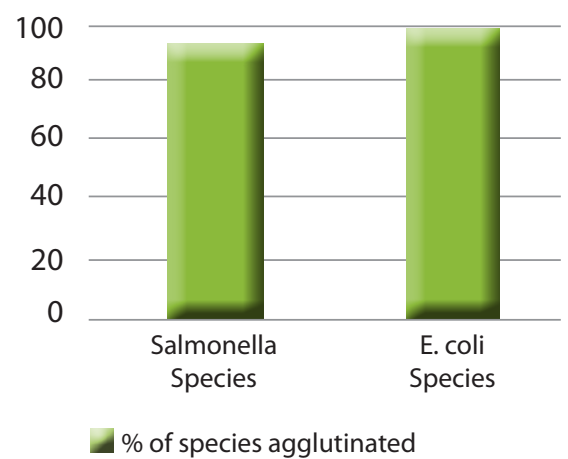
- Combat gut pathogens and toxins
- Support immune function
- Increase rumen efficiency
- Improve nutrient digestibility
- Potentially lower methane production
- Promote lean muscle growth

Figure 1. Sarsaponin Improves Nitrogen Retention



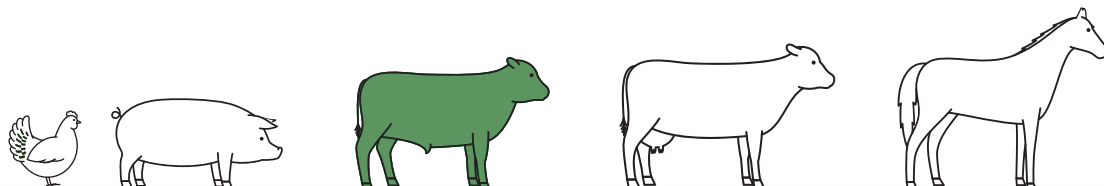
Lila, et. al., Asian-Aust. J. Anim. Sci. 2005. Vol 18, No. 12:1746-1751

Figure 2. Binding Effectiveness Against Pathogens



Natural Biologics, data on file.

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# OPTIBEEF®



### ► Product Description:

Optibeef® is an all-natural blend of yeast components and plant extracts. The biologically active compounds from these natural sources have well-established benefits for animal health and productivity.

### ► Ingredient Composition:

Yeast Culture (*Saccharomyces cerevisiae*), Yeast Extract, *Yucca Schidigera* Extract and Mineral Oil.

► **Purpose:** Optibeef is to be used as a supplement to complete diets for all classes of beef cattle.

### ► Feeding Directions:

To be included in complete diets according to the general guidelines below, or as recommended by a qualified nutritionist.

#### ► Beef Cattle:

For calves less than 700 pounds	0.1 to 0.15% (2 to 3 lbs/ton)
For calves over 700 pounds	0.05 to 0.1% (1 to 2 lbs/ton)
In creep feed or receiving cattle	0.25% (5 lbs/ton)
For brood cows	0.1% (2 lbs/ton)

### Guaranteed Analysis:

Crude protein	Minimum	35.0%
Crude fat	Minimum	1.0%
Crude fiber	Maximum	2.0%
Moisture	Maximum	10.0%
Ash	Maximum	6.0%

**Warnings:** Avoid inhalation of dust when handling.

**Expiration Date:** 2 years from date of manufacture.

**Storage:** Store in a cool, dry place and out of direct sunlight.

**Packaging:** 55.1 lb (25 kg) bags or 2000 lb totes

See how Optibeef can impact your herd's productivity and profitability.  
Visit [naturalbiologics.com](http://naturalbiologics.com) today.

