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PROVILLI-MAX FACTS

- Highly concentrated yeast culture for increased feed nutrient digestibility and positive microbiome modulation.
- Hydrolyzed yeast as a rich source of MOS for enhanced pathogen binding to protect against infection and nucleotides to support rapidly growing tissues.
- Multiple species of *Bacillus* for improved nutrient digestion and *Clostridia* mitigation.

► Product Description:

Provilli-Max is an all-natural, highly concentrated product derived from *Saccharomyces cerevisiae*, including yeast culture and hydrolyzed yeast, and multiple species of *Bacillus*.

Together, these components provide a cost-effective solution to improve gut health, nutrient absorption and overall animal health.

► Modes of Action:

Yeast Culture – A 100% yeast culture with no fillers or carrier means that all of the intrinsic and secreted growth factors, enzymes, peptides, nucleotides and other factors are present at much higher levels than in other yeast cultures. These components also support development of a robust microbiome.

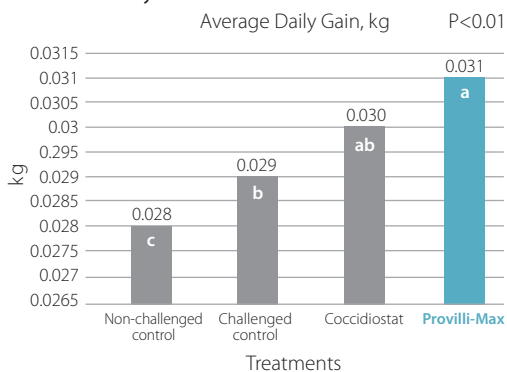
MOS – The MOS component of Provilli-Max provides effective pathogen binding in the GI tract. Research showed that the hydrolyzed yeast source of our MOS was able to effectively bind 96% and 100% of livestock-derived *Salmonella* and *E. coli* strains, respectively.

Nucleotides – As the building blocks for DNA, nucleotides are crucial for tissues with rapid turnover or for young animals with high growth rates. Hydrolyzed yeast provides a high level of readily available free nucleotides.

Bacillus – Provilli-Max includes multiple species of *Bacillus* developed to mitigate the risk of *Clostridia* species and in particular *Clostridium perfringens* in livestock. It is also proven to be a strong producer of bacterial amylase, protease and lipase to improve animal health during stressful situations. In a recent broiler chick research study, chicks fed Provilli-Max or the standard coccidiostat had increased average daily gain compared to the controls (Figure 1).

Overall, chicks fed Provilli-Max had similar growth performance and intestinal lesion scores as chicks fed the coccidiostat. These data demonstrate significant resilience of broiler chicks fed Provilli-Max and faced with a serious disease challenge.

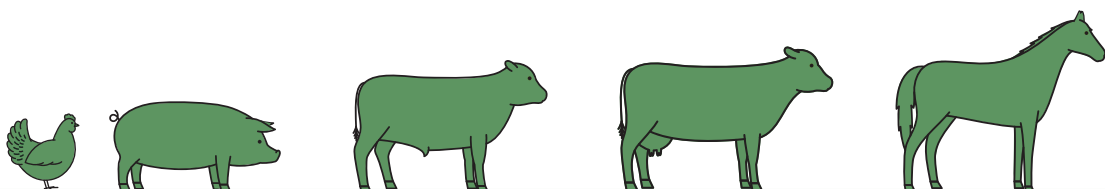
Figure 1. The effect of Provilli-Max on average daily gain of 0- to 14-day-old broilers.*



*Data are means of 12 replicates per treatment.
*c Data with different superscripts are different (P<0.01).

See how Provilli-Max can impact gut health, productivity and overall profitability in your animals.

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PROVILLI-MAX



► Product Description:

Provilli-Max is an all-natural, highly concentrated product derived from *Saccharomyces cerevisiae*, including yeast culture and hydrolyzed yeast, and multiple species of *Bacillus*. Together, these components provide a cost-effective solution to improve gut health, nutrient absorption and animal health.

► Ingredient Composition:

Yeast culture (*Saccharomyces cerevisiae*), hydrolyzed yeast, dried fermentation products of *Bacillus amyloliquefaciens*, *Bacillus subtilis*, *Bacillus licheniformis*, and *Bacillus pumilus*, maltodextrin, silicon dioxide and mineral oil

► **Purpose:** Provilli-Max is to be used as a supplement to complete diets for all classes of livestock, poultry, swine and companion animals.

► Feeding Directions:

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

Typical Analysis: Request from manufacturer

Density: 31 - 34 lb/cu ft

Appearance: Light brown, free-flowing powder

Packaging: 55.1 lb. (25 kg) bags

► Dairy Cattle

Calves	1 g/hd/d*
Growing Heifers	2 g/hd/d*
Pregnant Heifers	2 g/hd/d*
Dry/Prefresh Cows	5 g/hd/d*
Lactating Cows	4 g/hd/d*

► Beef Cattle

Calves	1 g/hd/d*
Receiving Calves	3 g/hd/d*
Stocker/ Backgrounder	1 g/hd/d*
Growers/Finishers	2 g/hd/d*
Finishers heat/cold stress	4 g/hd/d*
Brood Cows	3 g/hd/d*

► Swine

Starters (to 25 pounds)	250 g/ton (0.5 lbs/ton)*
Growers/Finishers	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*
Pregnant Sows	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*
Lactating Sows	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*

► Chickens

Broiler Starter	250 g/ton (0.5 lbs/ton)*
Grower/Finisher	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*
Layer Starter	250 g/ton (0.5 lbs/ton)*
Layer Grower	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*
Complete Lay Cycle	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*
Breeder	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*

► Turkey

Starter	250 g/ton (0.5 lbs/ton)*
Grower/Finisher	100 to 250 g/ton (0.2 to 0.5 lbs/ton)*

► Equine

Foals	(0.25 to 0.5 lbs/ton)*
Pregnant/Working/Show	(0.25 to 0.5 lbs/ton)*
Stallion	(0.25 to 0.5 lbs/ton)*
Draft	(0.25 to 0.5 lbs/ton)*
Senior	(0.25 to 0.5 lbs/ton)*

* Amount to be included in complete feed

Guaranteed Analysis:		
Crude protein	not less than	35.0%
Crude fat	not less than	2.0%
Crude fiber	not more than	6.0%
Moisture	not more than	10.0%
Ash	not more than	6.0%

