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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.

### ► Components & 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, unique among similar products, includes multiple species of *Bacillus* selected for their ability to mitigate challenges from pathogenic *Clostridia*, *Staphylococcus*, *E. coli* and *Salmonella*. In particular, *Bacillus subtilis* has been shown to be a potent inhibitor of *Clostridium perfringens* types A and E in livestock.

The selected *Bacillus* strains have also been proven to be strong producers of amylase, protease and cellulase to improve nutrient digestion and animal performance.

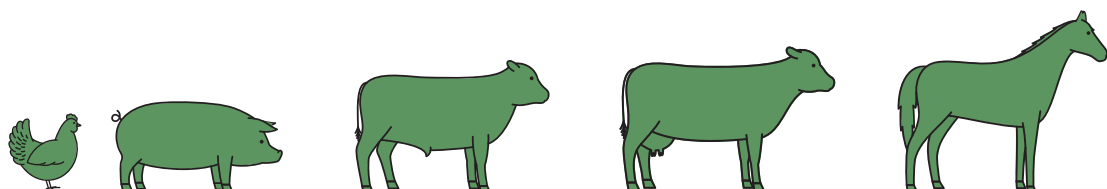
Figure 1. Efficacy of *Bacillus* Species on Inhibition of Gut Pathogens

<i>Bacillus</i> Species	Target Pathogens
<i>Bacillus subtilis</i>	<i>Clostridia</i> <i>E. coli</i>
<i>Bacillus licheniformis</i>	<i>Staph aureus</i>
<i>Bacillus amyloliquefaciens</i>	<i>Clostridia</i> <i>Salmonella</i>
<i>Bacillus pumilus</i>	<i>Staph aureus</i> <i>Salmonella</i> <i>E. coli</i>

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:** Hydrolyzed yeast, yeast culture (*Saccharomyces cerevisiae*), dried fermentation products of *Bacillus amyloliquefaciens*, *Bacillus subtilis*, *Bacillus licheniformis*, and *Bacillus pumilus*, maltodextrin and mineral oil.

► **Purpose:** Provilli-Max is to be used as a supplement to complete diets for all classes of dairy and beef cattle.

► **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 3 g/hd/d\*  
Dry/Prefresh Cows 6 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\*

\* 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%

