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solutions by nature

CASCADE FACTS

- MOS for effective pathogen binding in the GI tract to reduce gut challenges.
- Beta glucan to improve immune response.
- Concentrated yeast culture for efficient gut function.

► Product Description:

Cascade is an all-natural, highly concentrated blend of yeast components. This unique blend of complex carbohydrates and yeast culture metabolites helps improve gut efficiency and nutrient digestibility while increasing protein retention, reducing gut pathogens and supporting immune function.

Cascade blends active compounds from all-natural sources into a highly concentrated form.

► Modes of Action:

MOS – The MOS components of Cascade provide effective pathogen binding in the GI tract. Tested against dozens of *E. coli* and *Salmonella* strains, Cascade is proven to bind 95% to 100% of the different strains evaluated (Figure 1). In the animal, this prevents the pathogens from attaching to the gut lining and establishing an infection.

Beta Glucan – Yeast beta glucan is unique and highly effective at modulating immunity to improve responsiveness in both the innate and adaptive branches of the immune system. This leads to rapid elimination of health challenges and the longer-term benefits of improved response to vaccination.

Yeast Culture – Cascade contains a highly concentrated dose of yeast culture. With no carrier or media, the yeast culture provides a concentrated source of nucleotides, peptides, growth factors and digestible protein for more efficient gut function and production efficiency.

Multiple research studies have been completed showing how Cascade can work in poultry flocks. Ask your BVS representative for a copy of the full research studies.

Figure 1. Binding Effectiveness Against Pathogens

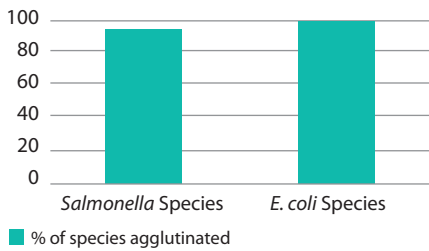
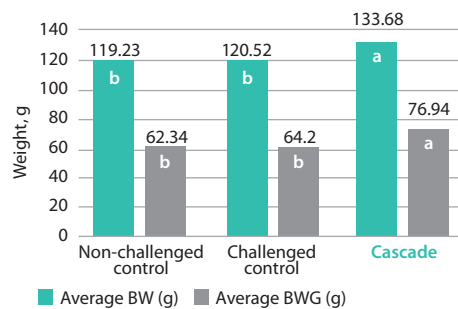


Figure 2. The effect of Cascade on body weight and body weight gain of poult from 0- to 10-days of age.*



*Forga, A., A. Rocchi, K. Teague, C. Jones, C. Elrod, T. Lavergne, and D. Graham. 2023. Evaluation of the effect of yeast-based dietary blend on mitigating horizontal transmission of *Histomonas meleagridis* in turkey poult. *Poult. Sci.* 102 (Supple. 1):301 (Abstr.)

See how Cascade can impact the overall health and productivity of your animals, while keeping your diet costs low.

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► **Product Description:**

Cascade is an all-natural, highly concentrated product derived from *Saccharomyces cerevisiae*, including yeast culture and hydrolyzed yeast. The biologically active compounds from these natural sources have well-established benefits for animal health and productivity.

► **Ingredient Composition:** Yeast culture, hydrolyzed yeast and mineral oil.

► **Purpose:** Cascade is to be used as a supplement to complete diets for all classes of poultry.

► **Feeding Directions:**

To be included in complete diets according to the general guidelines below, 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

Shelf Life: Two years from date of manufacture when stored in a cool, dry place in the original package.

Precautions: Use only as directed. Avoid inhalation of dust.

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	11.0%
Ash	not more than	10.0%

CASCADE



► **Chickens**

Broiler Starter	50 g/ton (0.1 lbs/ton)*
Grower/Finisher	50 g/ton (0.1 lbs/ton)*
Layer Starter	50 g/ton (0.1 lbs/ton)*
Layer Grower	50 g/ton (0.1 lbs/ton)*
Complete Lay Cycle	50 g/ton (0.1 lbs/ton)*
Breeder	50 g/ton (0.1 lbs/ton)*

► **Turkey**

Starter	50 g/ton (0.1 lbs/ton)*
Grower/Finisher	50 g/ton (0.1 lbs/ton)*

* This is a minimum feeding rate to be included in complete feed. Consult with your nutritionist to determine the optimum inclusion rate for your situation.

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