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EpiCor® Pets is a research-proven, postbiotic supplement ingredient for immune and microbiome support that delivers beneficial metabolites directly to the gut. EpiCor® Pets provides the right combination of metabolites to support pet health and overall well-being of pets.

PRODUCT PROFILE SHEET

EpiCor® Pets helps strengthen and balance your dog's immune and digestive system, providing a whole body halo of protection for pets everyday.

Prebiotics, Probiotics and Postbiotics: What is the difference?

Prebiotics, like fibre found in leafy greens are "the fuel" for the beneficial bacteria in the gut. Probiotics, such as live beneficial bacteria, act like the "factories" to the fermented fibres and prebiotics to make metabolites.

Postbiotics like EpiCor® Pets are fermented outside the body using a specific strain of *S. cerevisiae* yeast and contain hundreds of beneficial metabolites: "the goods" that support your pet's body.

Product Advantages

- ✔ **Manufactured in the USA**
- ✔ **Scientifically backed & highly efficacious**
  Backed by 12 studies, 5 of those being dog studies using Saccharomyces cerevisiae fermentation-based postbiotic
- ✔ **Supports Dog's Immune Defences**
- ✔ **Dual Mode of Action**
  Works naturally with the biology of the pet's digestive and immune system
- ✔ **Fits the desires of today's pet parents**
  Natural, vegan, no artificial colours, flavours or preservatives. No corn, grain, pea, wheat or soy. Non-GMO, and Non-Animal Derived
- ✔ **Innovative**
  Tried and true innovation with nearly 80 years of proven results in humans and livestock
- ✔ **Consistent Quality**
  Made using only quality, reliable, traceable ingredients to ensure product consistency
- ✔ **Stable to Extrusion**
  and other manufacturing processes
- ✔ **Small Inclusion for great benefits**
  Recommended inclusion is 7 mg per kg of body weight (BW)
- ✔ **Savoury Flavour dogs love**

Research

Immune Benefits

A study was conducted over 8 weeks on thirty adult beagle dogs (18 female and 12 male) that were randomly assigned to one of three supplementation treatments: placebo, 7 mg/kg BW and 29 mg/kg BW of EpiCor® Pets.

The objective of this study was to evaluate the effects of daily oral supplementation of EpiCor® Pets postbiotic on immune function in dogs and to verify its safety when fed at the target and a 4-fold target use rate.

Capsules containing EpiCor® Pets were orally administered daily to each dog in the morning throughout the study and researchers were blinded to the treatments. A complete clinical health examination was performed weekly and blood samples collected every two weeks to monitor overall health in addition to measuring markers of in *vitro* T-cell function and specific antibody responses (IgA and IgE). Saliva samples were also collected bi-weekly and analysed for IgA.

This study showed EpiCor® Pets postbiotic to be safe at use rates well-exceeding (4-fold) the recommended target in adult dogs. Furthermore, treatment induced changes in cytokines and immunoglobulins provide evidence that EpiCor® Pets

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interacts to balance the T-cell helper responses which may be beneficial in dogs responding to common environmental challenges. [1]

Microbiome Benefits

Nine female hound-mix dogs were used in a replicated 3x3 Latin square design to evaluate microbiological and immune responses. Dogs were given 400 g of food daily with one of 3 gelatine capsule treatments: placebo (empty capsule), 0.143 g of EpiCor® Pets and 1 g of EpiCor® Pets. Blood concentrations of lymphocytes positive for CD3, CD4, CD8α, and CD21 cell surface markers and serum immunoglobulin concentrations were measured.

Gene expression of cytokines TNF- α, Il-6, IFN-γ and TGF-B also was determined by quantitative real-time PCR. ***Lactobacilli, Bifidobacterium, Escherichia coli*** and ***Clostridium perfringens*** populations were quantified in feces using qRT-PCR. Population changes within the predominant fecal microflora were evaluated using parallel DGGE.

In conclusion the study demonstrated that EpiCor® Pets had a beneficial effect on microbial ecology by reducing ***Clostridium perfringens*** populations.[2]

Palatability

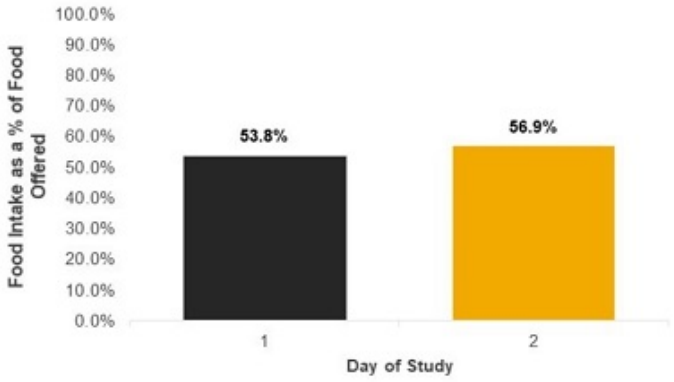
A study in 2021 was conducted to assess the acceptability of EpiCor® Pets trout chews for dogs. Twenty male and female Beagles with an average body weight of 25lbs (11,24kg) were presented with two EpiCor® Pets trout chews on an individual basis over a two-day period in stainless steel bowls once daily for 5 minutes.

Two hours before the test treats were offered, all dogs were presented with 490 g of a complete and balanced dry dog food for 30 minutes. This methodology was employed to simulate an in-home supplemented complete and balanced daily feeding regimen.

Figure 1. Average daily EpiCor® Pets Trout Chews offered and consumed

Results on this study showed 100% acceptability was achieved on both days of the study therefore, suggesting that the EpiCor® Pets will support a successful consumption of the targeted daily inclusion when offered as a supplement in conjunction with a typical daily feeding regimen.[3]

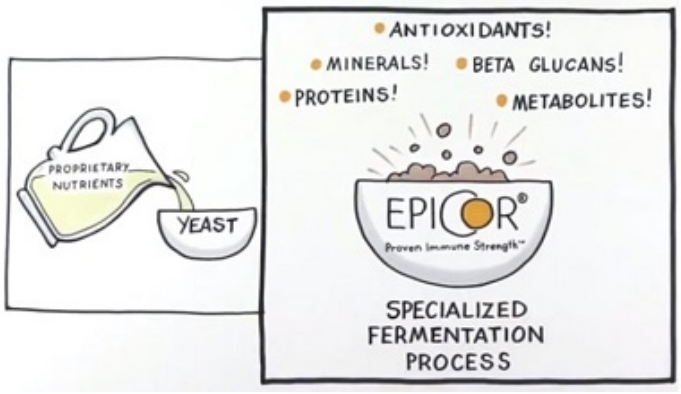
Figure 2. Average Food Intake (n=20)



Manufacturing Process

EpiCor® Pets is made using yeast (***Saccharomyces cerevisiae***) that goes through a closely held trade secret fermentation and drying processes.

EpiCor® Pets is the first and only fermentate with a unique metabolite and nutrient fingerprint composition, with nothing extracted during or after the fermentation process. This offers numerous benefits of a multi-active ingredient composition, difficult to match with a single active ingredient.



Product Safety

No adverse effects have been observed in any animal studies or human clinical trials.

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Product Range

Ingredient	Active Content	Grade	Mesh Size
EpiCor Pets	Proprietary Formulation	Powder	< 250 microns

Product Applications

Epicor® Pets can be used functional pet health treats, supplements and pet food.

Product Inclusion

Recommended inclusion is 7 mg per 1 kg of body weight.

About

Cargill's 155,000 employees across 70 countries work relentlessly to achieve our purpose of nourishing the world in a safe, responsible and sustainable way. Every day, they connect farmers with markets, customers with ingredients, and people and animals with the food they need to thrive.

Cargill combines 155 years of experience with new technologies and insights to serve as a trusted partner for food, agriculture, financial and industrial customers in more than 125 countries.

References

1. *Palić, D., Rowe E.W., Kimura, K., Roth J.A., Noxon J., May, E. Madson, D.Iowa State University College of Veterinary Medicine: Effect of EpiCor fermentate on immune response, safety, and welfare of dogs.*
2. *Hernot, D.C., G.C.Fahey, S. Reeves, and M.Scott 2008. Microbiological and immunological effects of two yeast-based complex fermentation ingredients on adult dogs. Presented at the 2008 Joint ADSA/PSA/AMPA/ASAS Annual meeting in Indianapolis Indiana. Poster Presentation; Abstract #W64*
3. *Diamond V Research & Innovation Center, 2021 - The study was conducted at Summit Ridge Farms in compliance with USDA No. 23-R-0126 under the Animal Welfare Act.*