

# BOOST PETS' IMMUNITY



BIOFUNCTIONAL  
**PROGLOBULIN<sup>®</sup>**



Natural Ingredients. Smart Solutions.

**sonac**

## KEY BENEFITS OF PROGLOBULIN®

Proglobulin® is a natural and palatable source of active immune factors that can be used as an ingredient in pet food to boost nutrition. When added to a pet's diet, it can enhance gastrointestinal balance, support the immune system, and improve overall well-being.

### A BIOFUNCTIONAL INGREDIENT

All cats and dogs deserve the best nutrition. This is why all of our biofunctional ingredients deliver additional value to maintain or boost animals' health.

Proglobulin® has been processed to preserve the health benefits of plasma. The immuno-active components of plasma are well-known for their benefits in gut health and increasing performance. By reducing inflammation, plasma helps to improve physical endurance and recovery, maintain normal gut function, boost overall immunity, and support long-term well-being.

### MAIN CHARACTERISTICS

Proglobulin® is a unique ingredient made by Sonac that is available in the form of an easy-to-use powder. Consisting of a high-quality, bioactive, spray-dried blood plasma, it is highly palatable and full of nutrients. Proglobulin® is composed largely of proteins. In addition, it contains 10% of minerals, 7% of water and only 2-3% of fat. The proteins in Proglobulin® are essential to pets' health.

Figure 1: Nutritional components of Proglobulin®

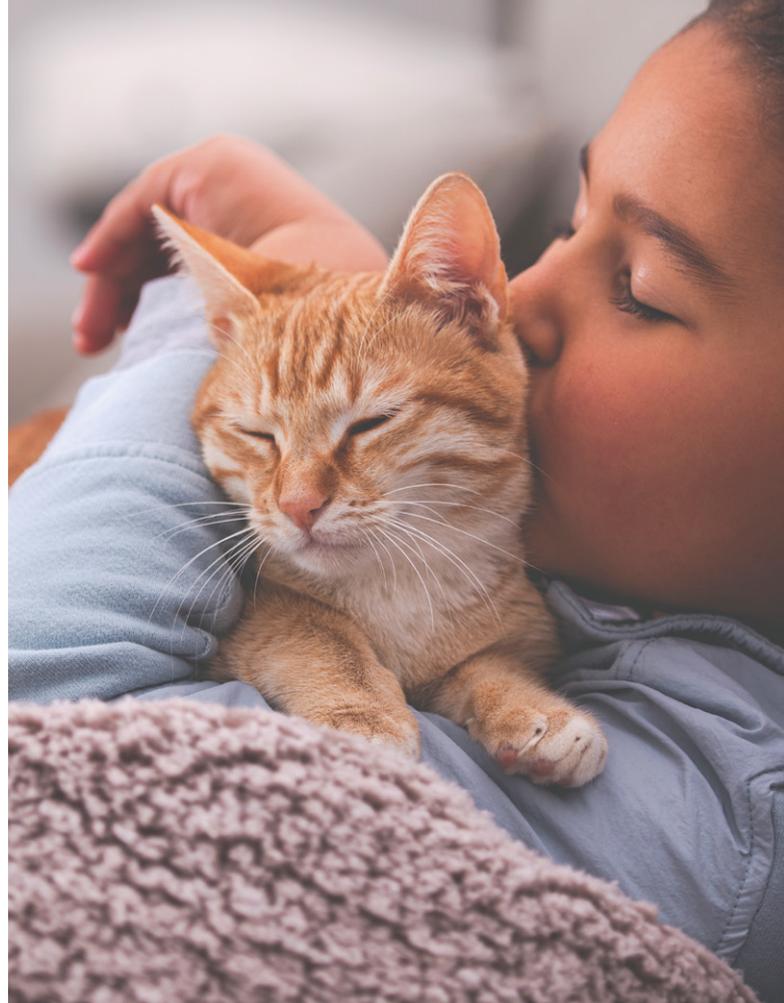
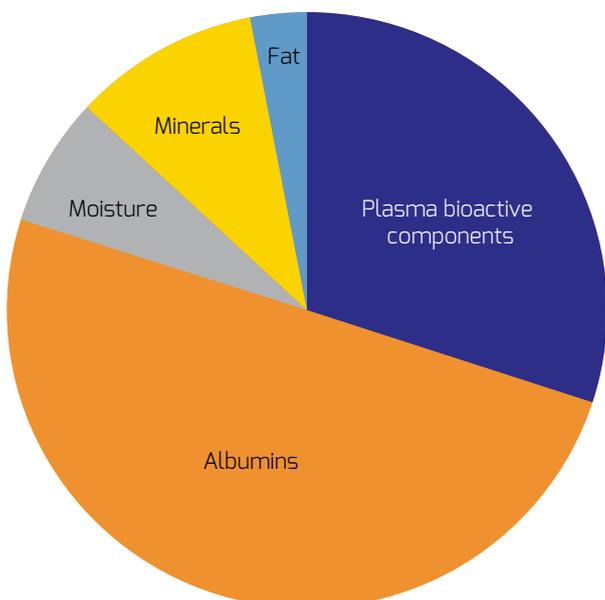
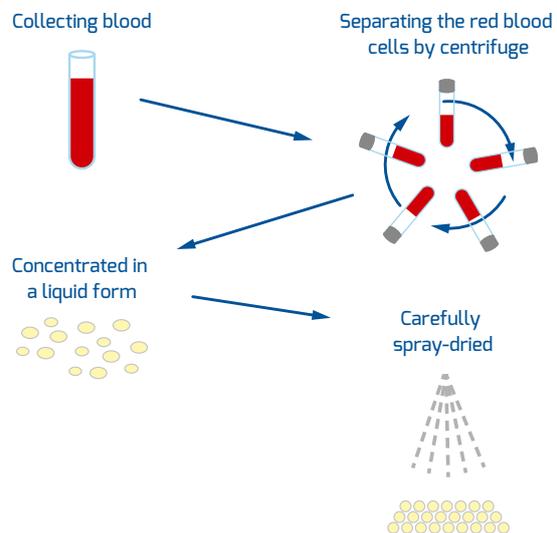


Figure 2: Production process of Proglobulin®



### PRODUCTION PROCESS CAREFULLY PRESERVES BIOFUNCTIONAL COMPONENTS

The blood used to produce Proglobulin® is obtained from certified slaughterhouses and from healthy animals approved for slaughter for human consumption. Blood is collected in a hygienic manner, kept in a liquid state by adding anticoagulants and refrigerated until processed. Red blood cells and plasma are separated by centrifugation. The liquid plasma is then concentrated and carefully spray-dried to preserve its biofunctional properties.



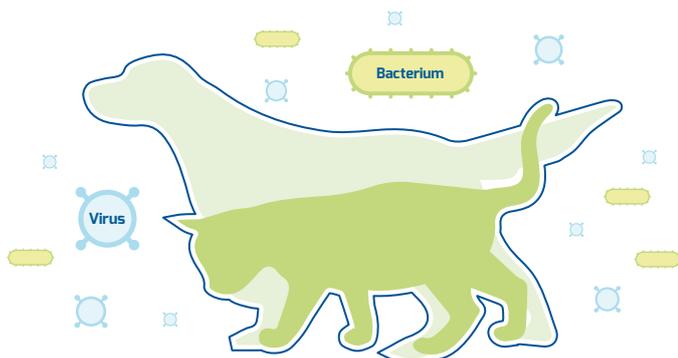
### HOW ACTIVE COMPONENTS OF PROGLOBULIN® SUPPORT THE IMMUNE SYSTEM

Antibodies are crucial as they defend the body against pathogens. Puppies and kittens obtain IgG after they are born through their mothers' colostrum. This humoral immunity gives resistance against pathogens that could otherwise provoke inflammation and cause symptoms such as abdominal distress, pain or diarrhea.

In a similar way, active factors within plasma support the immune system in the intestine. When plasma IgG are ingested, they specifically bind to pathogens, preventing the intruders from getting into the bloodstream.

Pet food that contains Proglobulin® can therefore help to improve gastrointestinal balance, support the immune system, and enhance overall well-being.

Figure 3: Plasma bioactive components support immunity





## APPLICATIONS

To assure the immunological functionality of Proglobulin® proteins, a limited heat treatment is advised. Proglobulin®'s biofunctionality can be preserved in dry pet food applications through post-extrusion spraying on kibbles or by mild heat treatments for snack and treat formulations.

Pet food formulations enriched with Proglobulin® are especially recommended for puppies and kittens, training and working dogs, as well as in foods for sensitive animals with digestive disorders such as bloating, diarrhea, or constipation. Due to the favorable amino acid composition and palatability of Proglobulin®, it is a beneficial component for each pet food recipe.

## FACTS & FIGURES

- Unique, 100% natural ingredient: Proglobulin®
- From animal sources (porcine, ovine, bovine)
- Contains plasma proteins, antibodies, immunoglobulins, immune factors and growth factors
- Supports the immune system
- Palatable to cats and dogs
- Beneficial component of pet food recipes

Appearance:

Powder (spray-dried)

## BRINGING TOGETHER PRODUCTS, PEOPLE AND PETS

Operating on a unique residuals-to-resources concept, Sonac develops biofunctional, technofunctional and nutritional ingredients that benefit the petfood industry, pet owners and pets. We operate at the intersection of these three different stakeholders' worlds.

We are a leading producer of reliable, sustainable ingredients worldwide, with representation on 4 continents and activities in 60 different locations. As a dependable one-stop shop for smart, volume-driven, ingredient solutions, our constant aim is to help manufacturers improve recipes and reach the highest levels of quality and environmental performance.

Sonac is part of Darling Ingredients.



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INGREDIENTS