

COMPANION



INGREDIENTS WITH SUPERIOR FUNCTIONALITY
& WHOLE BODY HEALTH BENEFITS FOR PETS

WET | DRY | TREATS | SUPPLEMENTS



IMPROVE FORMULAS WITH COST EFFECTIVE FUNCTIONAL INGREDIENTS

Innovative functional proteins that positively impact health and well-being while offering pet food, treat and supplement manufacturers formula flexibility and cost savings.



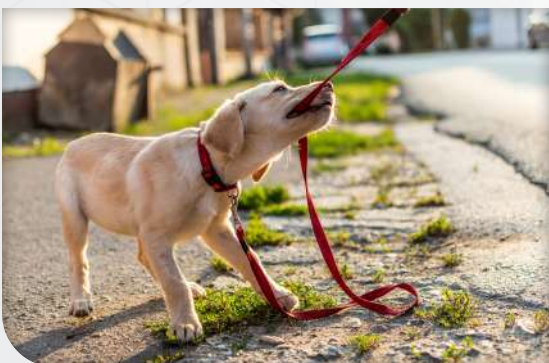
WHAT WE DO

We help animals thrive through the use of innovative functional protein ingredients that positively impact pet health while contributing to a quality finished product. Our plasma-based ingredients are functional, palatable and label friendly – offering pet food, treat and supplement companies the opportunity to provide a better product at a lower cost.



WHO WE ARE

APC is the world's largest manufacturer of plasma-based functional proteins. We operate a global network of manufacturing plants in Argentina, Brazil, Canada, England, Northern Ireland, Poland, Spain and the United States. APC is a family-owned business based in Iowa, USA, with over 40 years of experience providing consistent, quality products no matter where you are in the world.



WHY IT MATTERS

We understand the importance of building and keeping the trust of your pet parent customers. We feel the same way about our valued clients. You can count on APC to offer quality ingredients that meet the pet industry's stringent requirements while providing above and beyond customer service. Whether you manufacture wet or dry foods, treats or supplements, we're here to help you achieve your goals.

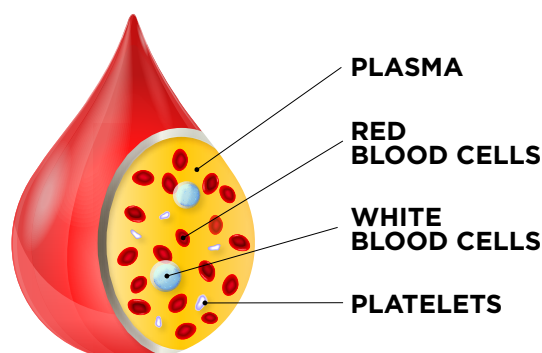
WHOLE BODY HEALTH INGREDIENTS

Finding holistic methods to support normal immune and inflammatory responses is important to keeping pets healthy and enjoying a long life. Inflammation is more than sore joints. When stress or chronic inflammation occurs, the whole body is affected down to the various tissue levels

BLOOD PROTEINS ARE NATURALLY BENEFICIAL

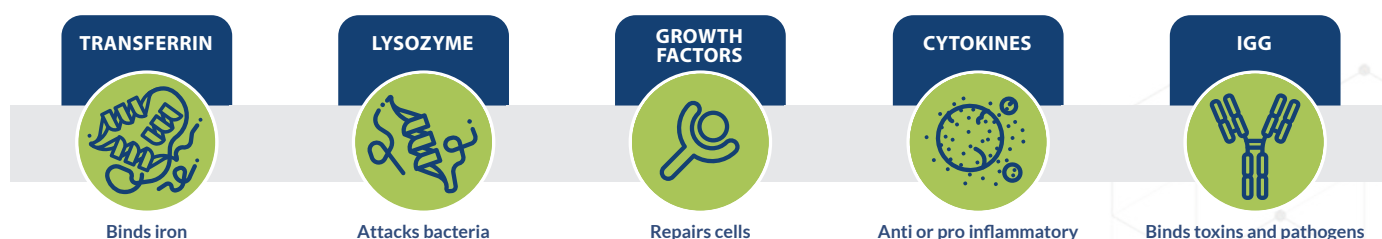
Whole blood is spun at high speeds to separate the plasma and red cells. Plasma is the straw-colored liquid in which red blood cells, white blood cells and platelets are suspended. The plasma is processed through spray drying, transforming this unique fraction into a powder.

Plasma contains numerous components that help support whole body health. Due to our unique processing, the active functional proteins in plasma are preserved and when consumed orally, provide beneficial health impacts.



WHAT COMPONENTS MAKE PLASMA EFFECTIVE

The effects of plasma are systemic, meaning it affects the immune system as a whole and has a broad and sustained impact on the efficiency of the total body's immune system response to stress and inflammation.



IMMUNE SYSTEM CONNECTION

Inflammation and an overactive immune response to stressors takes a toll on all animals. People too – think about how difficult it is to go about your daily routine when you aren't feeling well. The same thing happens with our pets! Finding ways to help support a normal immune and inflammatory response is important to keeping our furry friends healthy. APC has spent years researching the mode of action of plasma to understand how plasma works.

ORALLY FED PLASMA HAS A MULTI-SYSTEMIC EFFECT ON ANIMALS.



WET, MOIST & SEMI-MOIST APPLICATIONS



In wet, moist and semi-moist applications, plasma-based ingredients can be used for traditional, functional manufacturing benefits while providing a superior finished product. They help make a more homogenized loaf, firmer chunks with fewer crumbs, improve texture and create a gravy pets love.

- Improve digestibility
- Improve palatability for finicky eaters
- Reduce ash, increase protein alternative
- Help balance calcium/phosphorus from meat meals.



COST SAVINGS

Effectively replace other ingredients commonly used in wet formulas at a cost savings and with none of the baggage. Plasma-based ingredients improve palatability, digestibility and deliver big on a meaty protein profile. Substitute our ingredients for:

- Egg whites, egg powder, whole egg
- Carageenan
- Guar gum
- Wheat gluten
- Extend other protein sources



PROCESSING BENEFITS

The unique physical properties of our ingredients mean they are suited to a wide variety of product forms and help improve processing in all types of wet, moist and semi-moist products. Manufacturers benefit from a single ingredient to solve a number of challenges.

- Improve water holding
- Improve gelling
- Improve emulsification
- Create a thick, rich gravy

DRY FOOD, TREAT & SUPPLEMENT APPLICATIONS

Choose plasma derived ingredients to elevate your health focused dry, treat and supplement products. Whether you need formula functionality or a unique ingredient with unparalleled health benefits backed by research, APC offers ingredient solutions to meet your requirements at a price that makes sense in your formulas.

- Support whole body health
- Improve digestibility
- Improve palatability
- Reduce ash, increase protein alternative
- Help balance calcium / phosphorus from meat meals



FUNCTIONAL HEALTH BENEFITS

More than 600 published journal articles show the power of plasma and the positive impact it has on the overall well-being of animals. Our ingredients can be added as powerful and unique options in today's specialty diets.

- Digestive health
- Cognitive function
- Muscle
- Joints & bones
- Skin & coat



PROCESSING BENEFITS

The unique physical properties of plasma derived ingredients mean they are suited to a wide variety of product forms and help improve processing whether used in extrusion, cold form, freeze dried, liquid or powder applications. Manufacturers benefit from a single ingredient to solve a number of challenges.

- Improve extruder efficiency
- Help form a cohesive end product
- High solubility in liquids
- Combine easily with wet and dry ingredients



OUR INGREDIENTS

Finding holistic methods to support normal immune and inflammatory responses is important to keeping pets healthy and enjoying a long life. Inflammation is more than sore joints. When stress or chronic inflammation occurs, the whole body is affected down to the various tissue levels

FUNCTIONAL PROTEIN INGREDIENTS



**AP 820
SPRAY DRIED PLASMA**



**AP 920
SPRAY DRIED PLASMA**

SPECIALTY INGREDIENTS



**CRAVINGS
HYDROLYZED PROTEIN**



**BIOTHRIVE
MICROBIOME BALANCE**

Functional Proteins: Contributing to a Sustainable World

It's important to maximize the value of all our resources, including by-products like blood. APC collects blood that would otherwise have little to no value and turns it into ingredients that help support the immune system, reduce inflammation and improve health and well-being.



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