

PLANT-BASED PROTEIN INGREDIENTS FOR PETS



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PRAIRIE
AQUATECH
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POWERFUL PLANT PROTEIN

POWERFUL PLANT-BASED PROTEIN THAT IS HIGHLY DIGESTIBLE, SUSTAINABLE, AND ENVIRONMENTALLY FRIENDLY

Sustainable Alternative Protein Ingredients

Our protein ingredients are traceable from the farmer's field to our companion's bowl; we work closely with our supply chain to ensure maximum quality and value from start to finish. We have partnered with our certified network of growers to help them select the best non-genetically modified seed and agronomic practices to maximize the quality of our product. From the farm, our oil seeds have the oil removed using an expeller press to create the raw material that is delivered to our fermentation facility in Volga, South Dakota. Once delivered, our highly-skilled team uses proprietary fermentation technology to create a nutritious product with a unique protein and fiber fingerprint to be delivered to customers around the world.

Our Natural Fermentation Process

Using precise fermentation, the protein content and amino acid profile of plant-based proteins are improved while removing anti-nutritional factors that impede growth and development. Our ingredients are produced in our 45,000 square foot facility located in Volga, South Dakota. This combination of improved protein quality with the sustainability of being plant-based makes our product a super-food ingredient.

Ingredient Characteristics

Our ingredients are designed for maximum versatility in companion animal foods. They are easily extrudable with a neutral color, odor and flavor.

Our initial plant protein ingredient is derived from identity preserved, non-GMO soybean meal. It is a highly digestible, sustainable, and environmentally friendly feed ingredient. Its value is derived by what is in the ingredient, and by what has been removed through our proprietary, precision fermentation process.

From Our CEO

"We're creating traceability, right down to the farmer's field. We have a small group of farmers that we work with who are also investors in the company. We help them identify the proper non-genetically modified seed and agronomic practices for sustainable raw material production. We identity-preserve this raw material, and deliver the story that traces our pet food ingredient back to the field. Consumer trust is paramount, and it starts with traceable and sustainable ingredients."

Mark Luecke
CEO, Prairie AquaTech



AT A GLANCE

Product Features

More than
70%
Protein

Non-GMO

Highly
Digestible &
Palatable

Neutral
Color, Odor,
& Flavor

Hydrolyzed

Reduced
Anti-Nutritive
Compounds

Salmonella
Free

Sustainable &
Traceable

Certifications



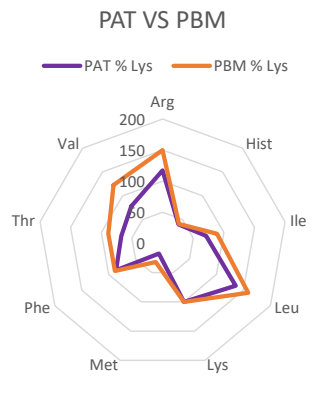
PERFORMANCE

Palatability & Digestibility

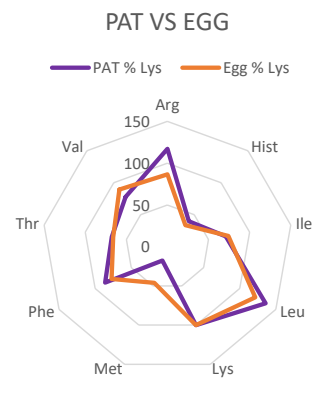
As a result of our proprietary fermentation process, the amino acid profile of our product is enhanced while removing the anti-nutrients common in plant-based protein sources. Our ingredient has an essential amino acid profile that is similar to popular animal-based protein sources like poultry by-product meal or eggs. Graphic 1 & 2 illustrate the amino acid profile of our ingredient in comparison to poultry byproduct meal and eggs expressed as a percentage of Lysine.

Digestibility and stool tests resulted in comparable performance to poultry by-product meal, making our ingredient an excellent substitute for a variety of applications.

Graphic 1.
Amino Acid Profile Expressed as a % of Lysine

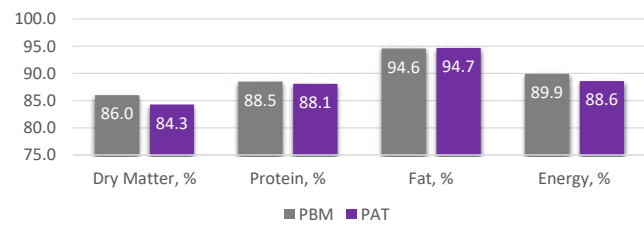


Graphic 2.
Amino Acid Profile Expressed as a % of Lysine



Digestibility Trial Summary

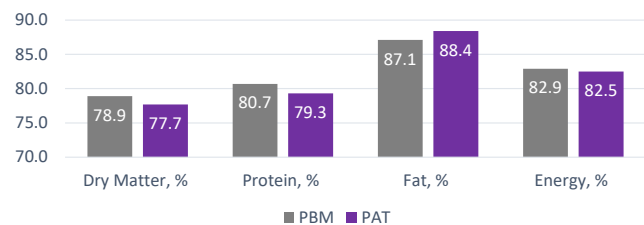
Canine Digestibility (PBM vs PAT @ 15%)



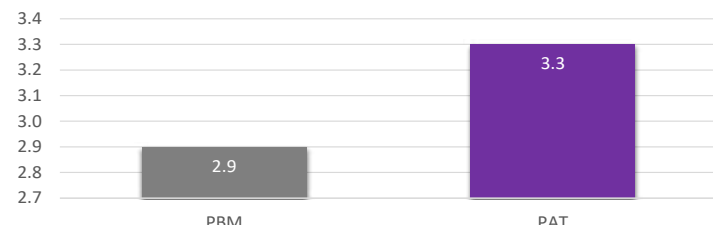
Canine Digestibility (PBM vs PAT @ 15%) Stool Rating (Range 0-5)



Feline Digestibility (PBM vs PAT @ 15%)



Feline Digestibility (PBM vs PAT @ 15%) Stool Rating (Range 0-5)



TYPICAL ANALYSIS

Prairie Aquatech's natural plant-based protein ingredient is produced as a light-colored and free-flowing powder. Our ingredient is highly digestible 70% crude protein (as fed), with low levels of phosphorus and calcium to support the health of companion animals.

Our pet food protein ingredient is produced at a state-of-the-art fermentation facility using non-GMO soybean meal through a proprietary process. It offers a significant amount of short-chain peptides and free amino acids that confer excellent attractability and palatability properties. The presence of biologically active factors may increase gut micro-biota, reduce intestinal inflammation, and boost metabolic processes.

Prairie AquaTech delivers our petfood ingredient in 2000 lb (907 kg) super-sacks.

Typical Composition (%)

Crude Protein (dry matter)	76.74
Crude Protein (as fed)	74.38
Moisture	3.59
Crude Fat (as fed)	0.76
Crude Fiber (as fed)	5.22
Ash (as fed)	1.41

Minerals

Calcium (%)	0.24
Phosphorus (%)	0.29
Potassium (%)	0.10
Magnesium (%)	0.04
Iron (ppm)	124.00
Copper (ppm)	19.48
Zinc (ppm)	43.78

Amino Acid (%)

Alanine	3.55
Arginine	5.82
Aspartic Acid	9.29
Cystine	0.95
Glutamic Acid	14.48
Glycine	3.39
Histidine	1.97
Isoleucine	3.52
Leucine	6.74
Lysine	4.96
Methionine	0.87
Phenylalanine	4.28
Proline	5.39
Serine	4.35
Threonine	3.35
Tryptophan	0.82
Tyrosine	3.16
Valine	3.87

*The information contained herein is correct to the best of our knowledge. The recommendations or suggestions contained in this typical analysis are made without guarantee or representation as to results. We suggest that you evaluate these recommendations and suggestions with your nutritionist or feed company.



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POWERFUL PLANT-BASED NUTRITION FOR PETS

ABOUT PRAIRIE AQUATECH

Prairie AquaTech was founded with the mission to provide better ingredients for better feed and food. We adhere closely to our company values of safety, quality, respect, transparency, and innovation.

The fermentation plant is a 45,000 square foot commercial scale facility. It is capable of producing up to 30,000 tons of our ingredients annually, pre-engineered to expand to 45,000 tons with minimal investment, and is centrally located for efficient access to road, rail and ports for global distribution.



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Disclaimer

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