

Safe, widely accepted and approved

Animal proteins are produced in accordance with HACCP, ISO and other feed quality control standards and are approved by the European Commission for use in fish feeds and in animal feeds. They are similarly approved by the US Food and Drugs Administration (FDA) and other leading food safety authorities. These and related products are also used in food, animal feeds, including pets and in pharmaceuticals.

As highly nutritious feed raw materials they are used extensively around the world in fish feeds for many species of aquaculture fish.

For fish farmers they offer good fish health and strong growth with low environmental pollution and exceptionally high standards of feed and food safety.

Animal proteins represent a sustainable resource for aquaculture. They provide natural high quality nutrition, packed with valuable proteins, and are supporting aquaculture to grow without increasing pressure on finite wild fish stocks.

Animal proteins

Sustainable resources for fish feeds

For further information on the benefits of natural haemoglobin powder or blood meal in fish feeds please contact EAPA.

EAPA represents all European producers, specialised in the production and supply of high quality natural animal proteins.

EAPA

EUROPEAN ANIMAL PROTEIN ASSOCIATION

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Helping secure the future of aquaculture

Aquaculture is the world's fastest growing source of protein for human consumption. Demand for fish is rising with the world population. Personal incomes are improving and people want more animal proteins in their diets. Increasingly fish is recognised as a food with high health benefits. The harvest of wild caught fish cannot increase but aquaculture can. By 2025 aquaculture will supply more than half of the fish eaten.

Currently 20 million tonnes of feed are produced each year and this is growing by five percent annually. Wild caught fish are a major resource for fish feed. Fishmeal and fish oil provide excellent protein-rich nutrition, especially for carnivorous species such as Atlantic salmon. They also are major components in feeds for marine species such as tilapia, sea bass and sea bream.

Because the supply is finite, alternative ingredients are essential for aquaculture to fulfil its potential. Already most available fish oil and half of the fish meal is used in aquaculture.

Great nutrition

Haemoglobin powder and blood meal have a remarkable 90-percent plus protein content, with high levels of essential amino acids and they are a rich source of iron. They contribute to making final products that provide the healthy nutrition fish is famed for.

These natural ingredients have a very low content of minerals such as phosphorus, helping to make feeds that are better for the environment, and it is virtually free of unwanted substances such as dioxins, PCBs and heavy metals.

Haemoglobin powder and blood meal are excellent, sustainable and natural protein sources for fish feeds.

Food grade production

Animal proteins are made under strictly specified conditions. Fresh blood is collected at certified slaughterhouses from animals approved for human consumption. The first step in the production chain, chilling the blood, is similar to that of fresh milk and dairy products. Then the valuable components in the blood are separated, purified and spray-dried.

Spray drying involves spraying the ingredient as very fine droplets into a sterile chamber at 200 °C. The droplets dry instantly, without denaturing their nutritional value. The elevated temperatures eliminate any risk of microbial contamination. The dried particles are then bagged and sealed in sterile conditions to provide powders with a high content of natural proteins and meeting the strictest food safety standards.

Animal proteins

Animal proteins are natural ingredients of high quality and safety that make an important contribution to the performance of fish feeds. Available from members of the European Animal Protein Association, they are from sustainable sources and readily supplement the limited marine resources currently used. Adding to their value, they help produce feeds with reduced environmental impact.

Ideal for fish feeds

Animal protein products, such as haemoglobin powder and blood meal are especially valuable raw materials. The proteins are produced in strictly controlled processes that capture the full nutritional value and ensure complete safety. It is an excellent way of retaining the value from by-products of the meat processing industry that otherwise would be treated as less valuable applications. The by-products are a sustainable resource and because the proteins are easily digested and very pure they produce feeds that are better for the environment.