

Who we are

protein is an industrial company, specialized in the production of natural high quality edible ingredients and supplements, and leader in Europe for the manufacture of collagen hydrolysed protein.



protein is also an **innovative, creative and dynamic society** with more than 30 years of existence on the market and with a clear international vocation.

Our main principles are:

- A highly qualified team,
- A powerful R&D Department, composed of researchers and engineers,
- A production plant furnished with the latest technological advances,
- Noble, traceable and food grade raw materials,
- Strict quality controls,
- Great respect for the environment.

From this website, **we want to put our products at your service and make your life easier. This is our commitment.**



Francesc Gavarró Mir
General Director
Chemical Engineer



Maria Teresa Figueres Juher
Managing Director
Bachelor of Biology

Our team

protein proudly considers its team to be one of its most valuable resources.

It comprises well-prepared professionals with a high educational level, that have been selected for their dedication to work and their capacity for integration into the team.

Each one from his post knows that **his main target is his contribution to customer satisfaction.**

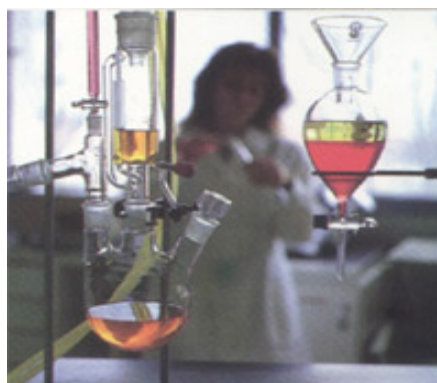


R & D

The achievements of our Research and Development team have been the main factor contributing to the leadership and growth of the company.

From the beginning, **protein's innovative vocation has stood out.** During more than 30 years of existence, we successfully developed numerous R & D projects, for which we **obtained research subventions by the National, State and Communitarian Administration.**

In **protein**, the R & D concept is very large and involves professionals with different kinds of education: researchers, industrial designers, chemical and computer engineers, etc.





Protein has always systematically used new processes, developed by the company itself, aiming at producing protein products with high levels of added value for food, dietetics and cosmetics.

Once the target is established, the process starts with a complete bibliographic and ground study so as to analyze each previous history of the project. The next steps are the lab studies, necessary to define parameters for the new project. Then a pilot plant is built to check the lab results and to study the scale effects on a half-industrial level. Finally with all these data, the new productive line engineering is developed. Modifications -sometimes major ones- occur during the consolidation process.

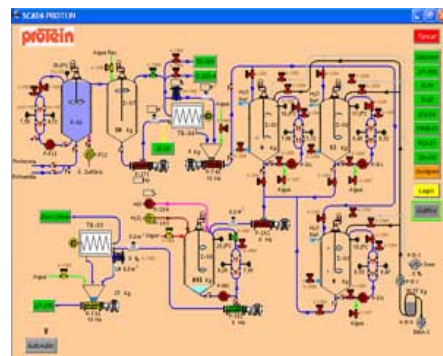
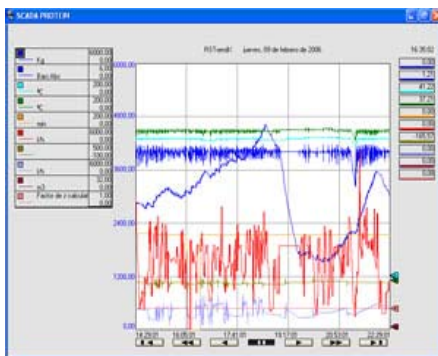
The greater part of the productive equipment has been designed by the company's technical staff, who also headed its construction.

Production plant

protein possesses an innovative and well-prepared production plant, designed by its own engineers and located on the industrial estate of Celrà (Girona. Catalonia. Spain).



This food production plant is equipped with the latest technological advances and employs the HACCP control system (Hazard Analysis and Critical Control Points). Critical points of the process are continuously monitored and registered by the SCADA on-line checking programme, in such a way that the quality and regularity of the process is guaranteed. The company has the sanitary authorisations according to its activity (NRGS 10-04347 and NRSIPAC 10-04471/CAT) and it is permanently submitted to the control of the sanitary authorities.



protein manufactures its products by a natural process (with thermal and enzymatical treatments), **unique and original, developed by the company itself and approved by the EFSA** (European Food Safety Authority), which guarantees the high quality of its products.



Raw materials

All our raw materials are:

- **Traceable.** - The route they followed from its origin up until they reach protein's production plant is completely documented through the certificates issued by each one of the establishments involved.
- **Fresh.** - **protein** is located in an area with a strong activity in the farming industry, which guarantees its proximity to the sources of raw materials and a very short time between their generation until their use.
- **Food-grade.** - Derived from healthy animals, which have undergone an *ante-* and *post-mortem* veterinary inspection. They have never left the food chain nor the cold chain, and have always been handled as carefully as meat or meat products are handled.

Quality control



One of the characteristics most widely appreciated by our clients is the **high quality and regularity of our products**, at the physical-chemical as well as at the organoleptical and microbiological level. This has been possible **thanks to the strict Quality Control that they undergo.**

protein has two sophisticated and well-equipped laboratories for research and quality control, chemical and microbiological, where the quality of each phase of the production process and of every produced batch is analysed and guaranteed by our experienced technicians.

Environment

From the very beginning, **protein** always had a **very respectful attitude towards the environment.**

Since 1995 we have a sophisticated biological WWP (Wastewater Purifying Plant). This operates vertically in a 4-phase system, which takes place in 4 different cisterns, measuring 16 m-high and with a capacity of 100 m³ each.

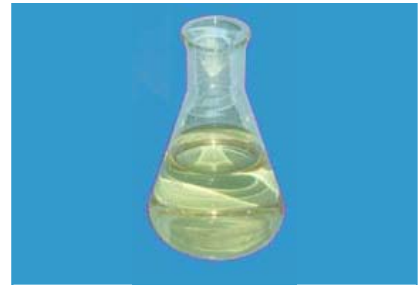
This very efficient WWP is unique in its category. It has been completely designed and built with our own technology. As a result, our wastewater complies with the very strict environmental local regulations presently in force.



Our products and their applications

Despite their common origin, our products are used in many applications, which we have grouped in areas:

- **Food.**
 - Cooked and dehydrated meat powder.
 - Soluble meat protein (collagen hydrolysate).
 - Clarifier protein .
- **Functional and dietetic food.**
 - Functional hydrolysed collagen.
 - Natural phosphate from bones.
- **Animal feed.**
 - Hydrolysed collagen for veterinarian use.
 - Natural phosphate from bones.
- **Dermal applications.**
 - Hydrolysed collagen for external application.
- **Vegetal Nutrition.**
 - Bio-activator protein.



In each case our target has been to manufacture products that **fully meet all the needs of the application they are intended for..**

Food

protein has a wide range of **food ingredients**.

All these products are:

- **Natural** (origin and process).
- **Ingredients** (they are not additives; therefore they do not need an E-number).
- **Derive from traceable food-grade raw materials**.
- **Free of GMO** (genetically modified organisms) **and allergens**.
- **Free of preservatives, MSG** (Monosodium glutamate) **or other additives**.
- **Free of lactose, gluten or other sugars and carbohydrates**.
- **Free of cholesterol and fats**.

According to their characteristics and applications, they are grouped under the following brands:



1. **COLPROPUR.**
2. **GELAHIDROL.**
3. **PROTEMEAT.**

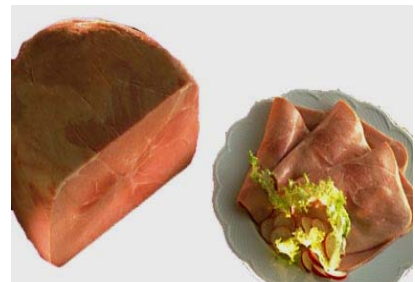
1.- COLPROPUR

Description

Soluble collagen protein (hydrolysed collagen) **in powder**.

Properties

- Pure (from a single animal species) raw material.
- High protein content (>90%).
- Very neutral taste.
- Total and quick solubility in water or brines.
- Low foaming capacity.



Applications

In foods, especially in injected and cooked meat products (cooked hams and shoulders), with the objective of:

- **Increasing their protein content and to improve their texture.**
- **Lengthening their conservation period by decreasing their water activity.**
- **Enhancing their protein content.**

In low sodium foodstuffs in substitution of salt.

2.- GELAHIDROL

Description

Soluble protein in powder (collagen or gelatine hydrolysate) with a great flocculant and clarifying power.

Properties

- High flocculant and clarifying capacity.
- Total and quick dispersability in water, wines and juices.

Applications

- **To clarify wines and juices.**



3.- PROTEMEAT

Description

Cooked and dehydrated meat powder.

Properties

- Typical amino acid profile of muscle meat protein.
- 55% protein.
- Low hydroxyproline content (0.5%).
- Outstanding emulsified fat content (25%).
- (1:2:3) fat emulsifying capacity.
- It retains 1.5 times its weight in water.
- Meat taste and flavour.

Applications

In meat products, fine pastes or cured products, to:

- **Increase the meat content.**
- **Emulsify fat and retain water.**
- **Enhance the meat taste and flavour.**



Health foods

protein manufactures two natural food ingredients with proved health functionality.

COLNATUR

Natural collagen protein, obtained by an innovative process of pre-digestion or hydrolysis and entirely defatted to make it more **digestive and bioassimilable**. **Fully soluble product with a very neutral taste, colour and odour**.

It contains **no flavourings, no sweeteners nor artificial colourings**. It is **GMO free** (Genetically modified organisms) **and allergens free**. It contains **no preservatives, no MSG** (monosodium glutamate) **nor other additives**. It is also **lactose free, gluten free, sugars and carbohydrates free**. And finally it contains **neither cholesterol nor fats**.



Rigorous scientific studies, carried out by biomedical research teams of the IMIM (Municipal Institute of Medical Research) and the Hospital del Mar of Barcelona, and also of the TNO Institute from Holland, confirmed that a daily intake of 10 g of **Colnatur** is a **very efficient supplement to nourish and protect our collagen-rich tissues (skin, bones, cartilages, joints, tendons, ligaments, gums, dentin, scalp, etc.)**. These studies have also confirmed that a regular intake **helps to treat and prevent diseases related to the degradation of our collagen tissues, especially osteoarthritis and osteoporosis, and to reduce the formation and appearance of wrinkles**.

As a species, man is an omnivorous animal and meat is a basic element of his diet. Nowadays, the food habits of the most developed societies -technologically speaking- present some serious deficiencies caused by the combination of several factors. **Cooking and eating in**

a hurry, the worry of becoming overweight, or vegetarianism have led us to a simplified collagen-poor diet. This lack of collagen could be compensated by a greater meat or meat products consumption, but excesses in that sense are not advisable either.

Thanks to the combination of an innovative natural production process that avoids the formation of dextrorotatory amino acids -which our body would not recognize or use- and of a high grade of hydrolysis (pre-digestion), Colnatur is the ideal source of bioassimilable natural collagen. It is the optimum product to nourish and protect our collagen-rich tissues in the most efficient way: from inside.

If you wish to get more information about **Colnatur**, please click on the following link:

<http://www.colnatur.com>

FOSNATUR

Natural tricalcium phosphate (hydroxyapatite) in **powder form**, derived from food grade and traceable animal **bones**.

Thanks to their natural origin, our **body can easily absorb the calcium and phosphate** contained in this product. As a result, **Fosnatur becomes an essential element in the treatment and prevention of osteoporosis and of the problems related with growth or decalcification in children.**



Animal nutrition

The ingredients manufactured by **protein** for Functional and Dietetic Food are also an indispensable supplement for pet food and for competition animals. These products are:

COLNATUR® PET

Animals can suffer, just like human beings, from a series of rheumatic and bones diseases, as a consequence of effort or aging. These can worsen in the case that the animal has already had previous malformations in its joints, such as dysplasia.

Since 1967, year in which the first patent regarding this subject was registered, numerous scientific and clinical reports have proved that **a daily intake of hydrolysed collagen constitutes a very effective treatment for the prevention of rheumatic and bones diseases.** The recommended dose is 150 mg per Kg of the animal's weight.

Colnatur Pet is a natural hydrolysed collagen specially developed for the treatment and prevention of osteoarthritis and osteoporosis in animals. It has also to be emphasized that a regular intake of Colnatur Pet has further positive effects on the animals, such as strengthening their skin, claws and fur.



Therefore, **Colnatur Pet** is the ideal supplement for the elaboration of **veterinarian preparations and functional feeds** to prevent and treat bone and rheumatic illnesses of our dear pets.

FOSNATUR FEED

Natural tricalcium phosphate from bones (hydroxyapatite) in powder form.



Thanks to its natural origin and to its calcium-phosphor proportion, **the animal's organism can easily and efficiently absorb these elements.** As a result, this product becomes an essential element in the **treatment of osteoporosis in animals, being applied to veterinary preparations as well as to animal feed, as an enricher.**

Its use is also advisable in **growth animal feeds.**

Skin and hair care

HIDROCOL

Soluble natural collagen protein (hydrolysed collagen) for external use.



Hidrocol has especially been designed for beauty creams that use soluble collagen as a hydration and nutritive agent for skin. Its low molecular weight allows it to pass through the dermal barrier and nourishing the skin. At the same time it stimulates the cells that generate dermal tissues (fibroblasts), **delaying thus the skin aging process and reducing wrinkles.**

Hidrocol is also used to reduce substantially the irritation caused by some usual tensoactive agents and by some beauty products on skin, hair, eye contour and nails. It is sold in liquid or powder form.

In tests measuring the degree of irritation on the skin of laboratory animals, it has been proved that this irritation decreases by 60%, when adding 5% of Hidrocol over the weight of lauryl ether sodium sulphate (LESS) weight.

Properties

- **Nourish and protect skin, eyes, hair and mucous membranes.**
- **Reduces dermal wrinkles.**
- **Quick and total solubility.**
- **Neutral colour and odour.**
- **Biodegradable.**



Applications

In beauty creams, bath foam and shower gels, shampoos, hair conditioners, perming products, cream for skin and hair care, etc.

Vegetable Nutrition

PROTAMINO

Protein bio-stimulant, which acts as an invigorator, protector and nutrient of plants. It can be used as a ground fertilizer, applied as a drip feed close to the roots or as a leaf fertilizer in spray. In all cases the product should be diluted in water.

This product is structurally a **protein broth obtained through an advanced hydrolysis process** of animal raw materials. It has an amber colour, liquid appearance with a slightly pasty texture.



Its use is particularly advisable **whenever the plant undergoes a period of stress** (early budding, blooming, etc) **or in which it is subjected to very adverse conditions** (drought, as well as before frosts or hailstorms).



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