



2012



2000



1991



1968



Industrial Técnica  
Pecuaria, S.A.

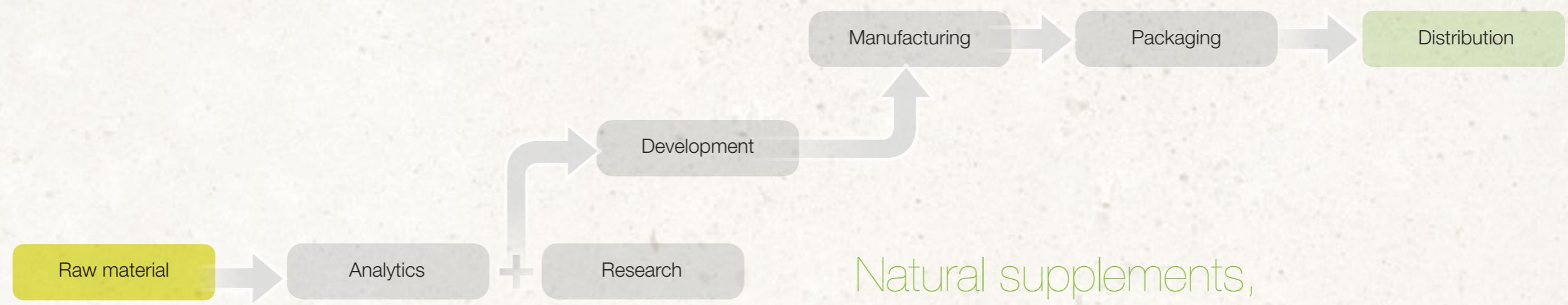
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Nutrition is a fascinating  
journey through  
the paths of research  
and innovation



"In ITPSA we offer solutions in the world of nutrition and animal feed every day."

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## Natural supplements, the most natural for feed: ITPSA

**Animal nutrition is a complex process to which ITPSA has been strongly devoted, because of its direct repercussions and interactions with humans and their environment.**

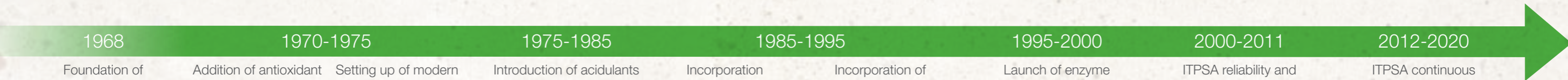
More than 40 years of experience of ITPSA in the field of research, innovation and development of feed supplements as well as our worldwide presence, allows us to offer one of the most extensive ranges of top quality products in the animal nutrition industry. Animal healthy, wellbeing, and performance greatly depend on suitability of feed supplements, so that feed does not lose the nutritional and organoleptic properties that the market demands.



The evolution and development of a company created to be at your service. Since foundation until today, Industrial Técnica Pecuaria S.A., ITPSA, has grown and developed fully identified with the livestock nutrition and petfood industries.



# 40 years of Innovation and Development



1968	1970-1975	1975-1985	1985-1995	1995-2000	2000-2011	2012-2020
Foundation of Industrial Técnica Pecuaria S.A.	Addition of antioxidant products based on Ethoxyquin.	Setting up of modern facilities for chemical synthesis.	Introduction of acidulants in animal feed.	Incorporation of fungicides as protective agents of feed quality.	Incorporation of digestive enzymes based on $\beta$ -glucanase, xylanase and $\alpha$ -galactosidase.	Launch of enzyme preparations aimed at solving feeding and physiological deficiencies in production animals (poultry, swine and rabbits).
					ITPSA reliability and productivity are recognized in the granting of various awards to the company and its members.	ITPSA continuous expansion and consolidation of new activities (human nutrition).

Industrial Técnica Pecuaria S.A. (ITPSA) was founded in 1968 as an entirely Spanish company. ITPSA began its marketing pathway by offering Marigold (*Tagetes erecta*) meal as a natural yellow pigmenter (lutein) for poultry production. A second step was the introduction of high quality Paprika (*Capsicum annuum*) meal, as a source of natural red (capsanthin) pigments to complement the yellow colour and give the desired orange hue to poultry products.

Shortly thereafter, ITPSA added to its portfolio a new line of antioxidants, mostly based on ethoxyquin. Due

to the successful development of these products, there was the need to start our own production of Ethoxyquin, which led to the establishment of our current modern facilities for chemical synthesis.

The ongoing development of the company has likewise led to the creation of new product lines, resulting from the research applied to the needs and demands of the animal nutrition industry. Among them, the Acidulants (1975), with a large group based on organics acids, Fungicides (1980) and shortly thereafter, a range of products

conceived to improve the bromatological quality of products of animal origin.

In 1992, ITPSA introduced in the market its new set of products based on digestive enzymes (based on  $\beta$ -glucanase and xylanase) to be followed by  $\alpha$ -galactosidase based enzymes (1997), in combination with other type of enzymes such as proteases, amylases and cellulases. These products made possible the production of enzyme preparations aimed at solving feeding and physiological deficiencies in monogastric livestock,

mainly in the line of poultry production, followed by swine and rabbit.

New preparations have increased ITPSA portfolio. Focused in the world of natural and physiological products, and designed to help the animal in its production processes, trade agreements have been reached with different leading companies in the feed industry to distribute and market products of proven nutritional efficiency.



ITPSA is working hard to internationalize its activities, achieving significant levels of sales (over 65% of our total production), technical recognition, reliability of service and quality of its products in over 50 countries all over the world.

At ITPSA, we count on highly prepared and professional staff, and the company has obtained the quality certification ISO 9001. ITPSA has also been awarded public recognition for pioneering and leading the exportation of nutritional supplements.

In 1993, ITPSA was awarded the 'Premi al Foment de l'Exportació 1992' by the Chamber of Commerce and Industry of Valls, due to the opening new export markets. In 2003, ITPSA received the 'Premi al Mèrit Agrícola', awarded by the Department of Agriculture, Livestock and Fisheries of the Autonomous Government of Catalonia. In 2011, ITPSA founder Dr. Francisco Puchal was awarded the 'Creu de Sant Jordi', the maximum institutional award granted by Catalonia Government 'Generalitat de Catalunya', in expanding the image of Spanish and Catalanian products throughout the world.





## facilities

"A pioneering company in technology for the livestock industry."

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# The newest high Technology applied to the best Raw Materials

The production facilities and the research and experimental centre of Industrial Técnica Pecuaria S.A. (ITPSA) stand on 1.5 hectares of land on the industrial park of Santa Maria, close to the city of Valls (Tarragona), at approximately 90 km from Barcelona and 20 from Tarragona and their respective ports of entry.

Production facilities are conceived to guarantee an optimum quality control of raw materials upon arrival from different parts of the world, as well as their storage and subsequent production processes.

Production units are clearly outlined for the manufacturing of our specific lines of products, such as the synthesis of antioxidants and mold inhibitors (Unit I), mixing of solids, liquid-solid, liquid-liquid and different types of absorption processes (Unit II), whereas the processing of pigmentation products (Marigold and Paprika oleoresins) is isolated in Unit III.

Volume storage facilities for solids and liquids are available and easily connected to their respective

units, from either silos or large volume holding tanks attached to the different units or from a tank holding area, especially designed to handle large volume liquid storage. Finished products are stored in separated warehouses basing on their chemical affinity and/or customer final destination. All natural products are subject to strict biological quality controls, and samples are taken for the corresponding safety and quality control tests carried out in our Laboratory and Experimental Center.

Finished products are packed according to specifications, either under vacuum, nitrogen or standard conditions and stored until delivery.





## Research: driving force of our industry

Initially, our main research lines at Industrial Técnica Pecuaria S.A. (ITPSA) followed two important directions: Antioxidant and Pigment products. As time went by and the need for other products appeared, new research and development lines were developed to offer new products and optimized technical support to customers. Today ITPSA's research and development branches have greatly broadened in new directions, and represent our strongest asset for further expansion.

ITPSA Research and Innovation Department is headquartered in two well defined areas: the Chemical and Research laboratories, and the Research farm, both located in and next to our production plant in Valls. The scientific library and the research and sales departments are located in Barcelona headquarters, being all of them closely connected.

The Chemical and Research Laboratory is subdivided into two well defined areas: analytical control for production and finished products, in their different lines of products and chemical procedures (HPLC and gas chromatography, UV/visible spectrophotometry, high definition colorimetry, etc.) and the research area with both *in vitro* (microbiological tests, in-lab functional activities, synergising reactions, etc.) and *in vivo* (pigmentation studies, peroxidation of carcass fats, internal and external egg quality, growth stimulation, etc.) testing facilities.

Biological testing and *in vivo* research are conducted in the new Research Farm, adjacent to the production plant. ITPSA R&D Department is staffed by a research director and a team of three direct assistants.

The need for applied research and development in animal nutrition prompted the onset of Industrial Técnica Pecuaria S.A. and represents the fundamental pillars of our growth.

## A product Variety Intended to satisfy the needs of each industry

### Pigments

Natural pigments were the starting point of ITPSA and represent today one of its strongest lines of products. By using agricultural products carefully harvested and selected for their quality and content in both yellow and red carotenoid pigments, and as a result of a constant and careful process of research and technical effort, the pigmentation products Capsantal EBS, Capsantal FS and Capsantal TR are produced. Natural pigments make it possible to obtain a high level of pigmentation of broiler skin, egg yolk, flesh of trout and salmon.

### Acidulants

Undoubtedly, acidulants can be considered as the "first born" of the natural additives or supplements in the group known as "physiological additives". Based on the study of the digestive physiology of the young piglet, acidulants emerged as the most natural dietary supplement to facilitate early weaning in pigs and calves, as well as growth enhancers in rabbits. The early onset of the Digestocap and Lacticap line of products has provided an extremely valuable background and expertise in this field, making ITPSA a leader in the sector of physiological additives.

### Food quality enhancers

Improvement of food of animal origin. This is the ultimate target of the research and development activities carried out at ITPSA. The search for this ideal has given products such as Democap, Capsomin or Durovocap.

### Enzymes

Digestive enzymes have been one of ITPSA main lines of interest in recent years, due to proven efficiency and natural structure of these products. The first ones to appear were the carbohydrase enzymes, mostly based on  $\beta$ -glucanase (Capsozyme C/2 designed for diets containing raw materials with a high content mainly on  $\beta$ -glucans, such as barley, rye and oats and their by-products) and xylanase (Capsozyme T/2, designed for diets with raw materials with high amounts of xylans and  $\beta$ -glucans, such as wheat, rye and oats). Their use makes it possible to increase the feed energy value at no extra cost.

### Flavours and sweeteners

Being of great relevance for the progress of modern animal feeding, feed flavours and sweeteners have gained a key position in the field of feed supplements. Their use has eased the utilization of many agricultural by-products and improved palatability of modern diets. For this purpose, we have developed our sweetener Sugarcap as one of our main targets, as well as a variety of selected flavours in our product line Flavoural.

### Antioxidants

Available in different forms, antioxidants represent one of the leading lines of ITPSA products and expertise. Backed by a solid team of fine chemistry and nutritional experts, the production of ethoxyquin and other antioxidants at ITPSA has reached high standards of quality that place these product lines and their registered trademarks, Capsoquin, Oxicap and Toconat as reference standards of quality in Europe. The high effectiveness of ethoxyquin makes it an essential additive in the manufacture and utilization of raw materials susceptible to rancidity, such as fats, fish and meat meals, vitamins, pigments and other nutrients sensitive to oxidation.

### Antimicrobial

The concept 'antimicrobial' emerged as a direct consequence of the ban of antibiotics as growth promoters in the European Union in 2006. Mostly based on organic acids and other natural and synergizing components, they are what may be colloquially known as a "natural" product for ITPSA to produce, taking into account ITPSA background and expertise in this field. The main products of this range arise from ITPSA own research or from cooperation with universities and research centres within the framework of research projects, and have resulted in products such as Salcap and Essentialis.

### Environmental control

As a producer of natural products, ITPSA has always been concerned with animal welfare and the effects of feeding on the environment. ITPSA also manufactures a variety of products not specifically designed for but indirectly involved and showing clear positive effects in the environmental control, which are derived from their main function in other product categories, such as sepiolites and the line Capsozyme.

### Mold Inhibitors

Mostly based on natural organic acids, ITPSA anti-mould products have evolved into one of its main lines of products, successfully controlling mould content of feeds and thereby reducing the risk of mycotoxicosis in animals and mould contamination and growth in stored feeds and feed ingredients. Fungicap and Fungicap Rutex in their different forms constitute a guarantee of mould control and mycotoxicosis prevention in feed with high nutrient concentration.

### Product Distribution Licenses

The worldwide expansion of ITPSA and our technical and technological know-how has made it possible that our sales and technical staff are completely acquainted with the technological and nutritional problems being faced by our customers all over the world. Our international expertise, both in logistics and technical support in animal feed, is of key interest for other companies looking for international distribution of their products through our well established sales network. Thus, sales agreements are frequently established between ITPSA and other companies for the distribution of high quality products for the feed industry, either worldwide or in specific markets.



“Experience and research together in a fascinating project: feeding the human being.”

Human nutrition and food are defined as the study of nutrients and food needed to provide the highest quality of life for the human being.

The vast experience of ITPSA in generating nutrients and other nutritional high quality compounds have resulted in the development of a new business sector fully dedicated to this important and crucial aim.

Nowadays, humans have adopted a range of diets that greatly depend on the sources of food available in the regions where people live in as well as their cultural traditions and religious beliefs. Thus, eating habits from nearly carnivorous to completely vegetarian are feasible.

In some cases, unbalanced diets or dietary restrictions of humans can lead to nutrition disorders. It is at this point where food supplements of high biological value, as those produced by ITPSA, are needed.

The continuous growth of ITPSA has led us to expand our activities to the field of human nutrition while maintaining the standards of quality, safety and reliability of our products.





Current availability of our products in more than 50 countries all over the world has been possible due to a solid logistics planning, flexible enough to get adapted to ongoing changes in the different markets.

## The great challenge: to increase our international presence

Entering into the new millennium, ITPSA brand and products are recognized and available over more than 50 different countries throughout the world.

In 1999, ITPSA established the subsidiary company ITPSA Hong Kong Ltd. to deal with our far-east business activities. Among these activities can be highlighted the management of our new production plant, ITPSA Far East Ltd., in Guangzhou, China. Likewise, ITPSA has subsidiary companies in Central America, Brazil, Uruguay, Japan and Vietnam.

Most of our international distributors work with our company trademarks on the basis of exclusive distribution agreements. All our distributors work side by side with our international sales department and are fully backed up by the customer service of our technical department, either through agreements for technological and nutritional advice, as well as cooperation in R&D projects with their own technical staff and local research institutions.

