



ABN

APLICACIONES BIOLÓGICAS A LA NUTRICIÓN





ABOUT US

ABOUT ABN

Aplicaciones Biologicas a la Nutricion S.L., ABN, is a family business founded in 2000 specialised from its beginnings in the distribution of top quality products from European manufacturers. For years, ABN has been the company leader in the protein market, and particularly in the European yeast market.

In 2014 ABN started manufacturing its own products in Navas del Rey and in 2016 it introduced in Spain (Villanueva del Pardillo, Madrid) the first yeast recovery factory from brewer's yeast.

The brewer's yeast arrives in its liquid form, and it is then subjected to a pasteurization process, concentration and finally drying process, either with rollers or spray-drying.

ABN's own laboratory ensures quality controls for all acquired and manufactured products.

ABN's brewer's yeast is the main one out of its specialities. These products are designed with high quality proteins such as egg or dairy.

ABN has another building in Navas del Rey where the products produced are tailored to the customer's needs, as well as a warehouse in Lleida, to store the end product, which allows ABN to optimise logistics and distribution of the final product all around Spanish territory.

As a quality and commitment guarantee to the customer, ABN is certified under GMP B1 regulation and UNE-EN ISO 22000.

PREMIUM ABN PRODUCTS



Pasteurised brewer's yeast concentrated by evaporation and dried using **rollers**.



Pasteurised and **hydrolysed** brewer's yeast, concentrated by evaporation and spray-dried.



Pasteurised brewer's yeast concentrated by evaporation and **spray-dried**.



Extract from hydrolysed brewer's yeast rich in **Beta-glucans and Mannan-oligosaccharides (MOS)**, centrifuged and spray-dried.





SPECIALITIES WITH **ABN** BREWER'S YEAST

SMARTPROT RANGE



SMARTPROT

SmartProt is a complementary protein feed for young animals based on quality ingredients, such as fermented milk protein, egg powder and hydrolyzed yeast.

☆ Benefits:

- Improves the quality of the protein, especially in feed without fishmeal.
- Improves the palatability and the organoleptic properties of the feed.
- Improves the immune status of the animal.
- Protein digestibility 96%.
- Can be used in all animal species.



SMARTPROT PETFOOD

SmartProt Petfood is a complementary protein feed for pets based on quality ingredients such as egg powder, hydrolysed yeast and inulin.

☆ Benefits:

- It allows, with just one product, to provide several ingredients that improve feed quality and also customer's perception.
- Improves the palatability and the organoleptic properties of the feed.
- Improves the immune status of the animal.
- Protein digestibility 96%.



PEPTISOY 50



Product specially designed to **provide high quality proteins to your diet**, improving the portion's digestibility. **PeptiSoy 50** improves feed appetite and consumption. It provides **free amino acids, nucleotide, beta-glucans, MOS and FOS**.

☆ Benefits:

- Protein content 50%.
- 20% of the protein is made up of free peptide amino acids.
- Improves the animal's immune response thanks to nucleic acids, Beta-glucans and MOS.
- Excellent quality/price ratio.
- Its ingredients improve the quality of the feed and the customer's perception.
- Improves palatability and organoleptic properties of the feed.
- Improves the immune status of the animal.

SELECT40



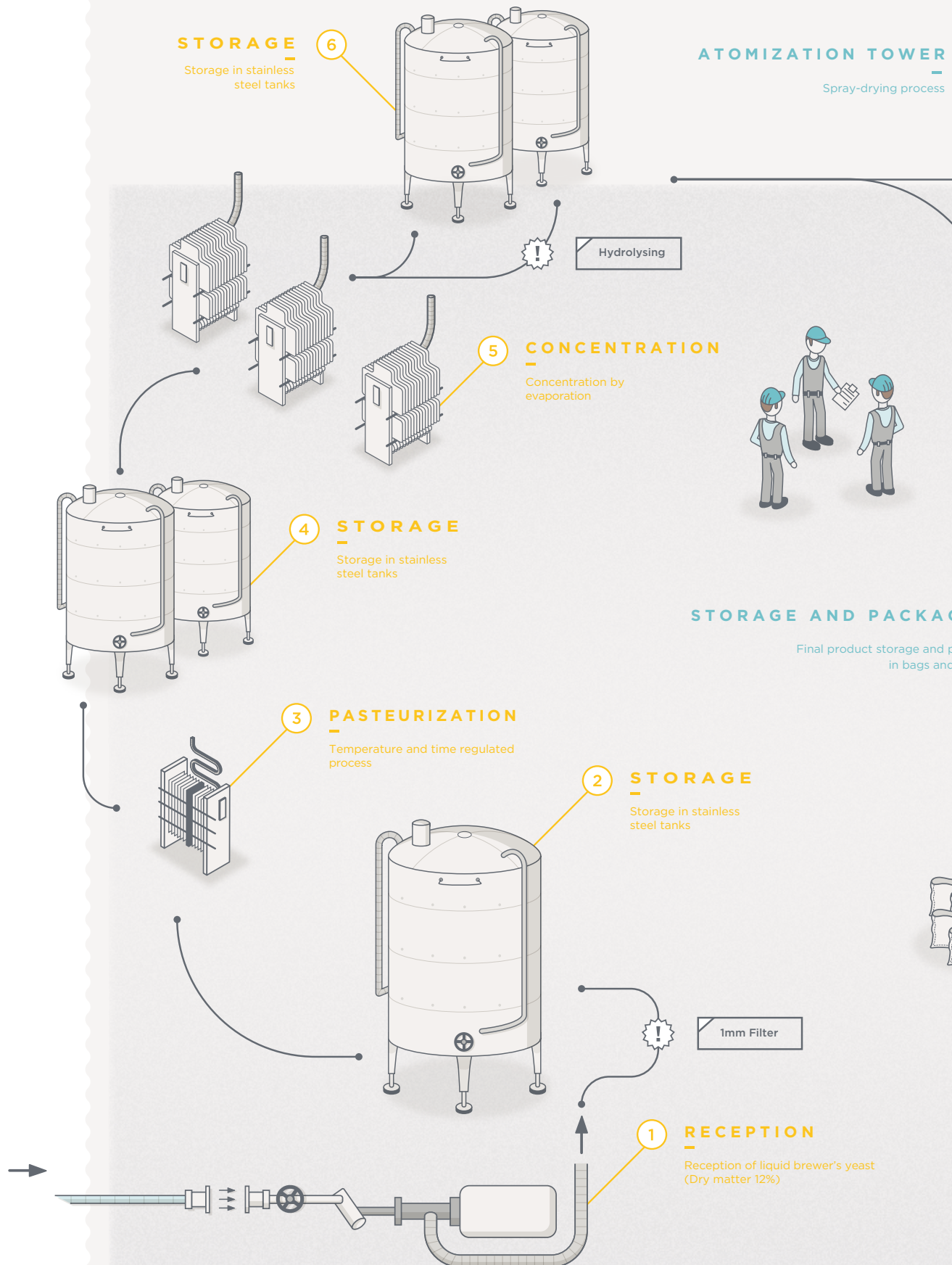
Yeast culture which comes from the production of beer. It combines the properties of yeast with the metabolites from the culture's fermentation.

☆ Benefits:

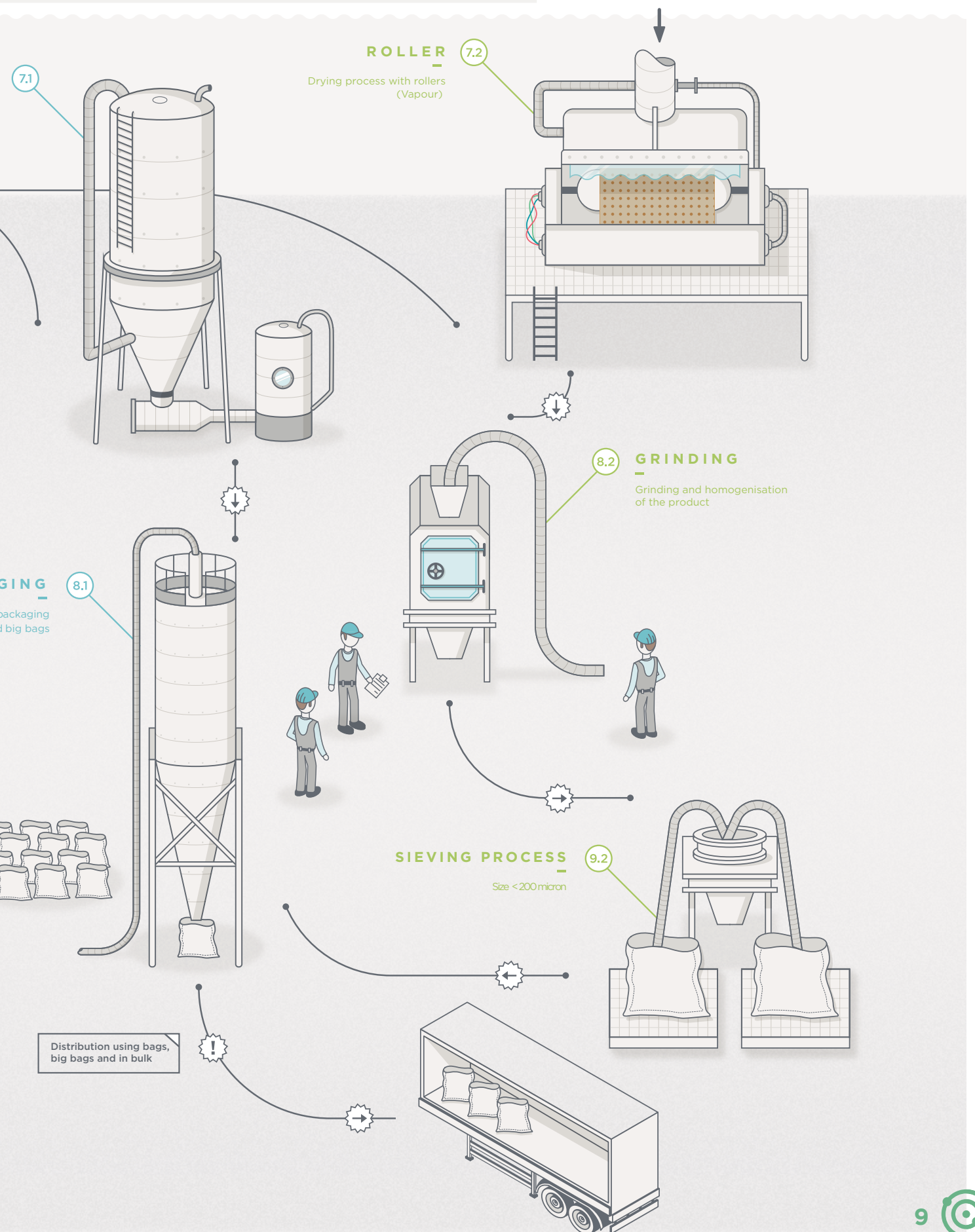
- Provides nutritional properties.
- Regulates the digestive process.
- Increases feed consumption thanks to the increase in palatability.
- Increases milk production and improves the animal's body condition.



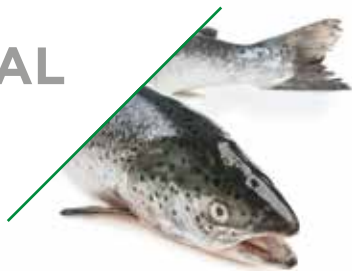
ABN PRODUCTION PROCESS, V



WHAT MAKES US DIFFERENT



FISHMEAL



FF CLASSIC FISHMEAL

Fishmeal produced by FF in Skagen (Denmark), specially designed for piglets.

Its content in amino acids ensures a high weight increase. Thanks to the use of fresh fish during the manufacturing process, its content in biogenic amines is always under the permitted level.

- o **Protein content 70-72%.**
- o **Specifically designed for piglets.**
- o **High digestibility and freshness.**

LT SUPREM FISHMEAL

Fishmeal produced by FF in Skagen (Denmark).

It is manufactured from samples with a lower TVN. It is dried at a low temperature to ensure a better digestibility.

- o **Protein content 70-72%.**
- o **Digestible protein 90% (forecast).**
- o **Maximum TVN in fish 50 mg/100g.**

PRIME 67 FISHMEAL

Both, its balanced composition of amino acids and omega acids and its high content in proteins and good digestibility, make Prime 67 a fishmeal with high quality suitable for all kind of animals.

- o **Protein content 67%.**
- o **Fat content 10%.**





GePro POULTRY PROTEIN AND FAT

GePro belongs to the holding group PHW, one of the mayor **poultry producers** in Europe. GePro transforms the poultry by-product obtained from the slaughterhouse into quality ingredients for **animal nutrition**. The whole process is under a very strict veterinary supervision.

GePro through ABN designs and produces, following customer's requests, **high digestibility fats and proteins**.



POULTRY MEAL

It's a high protein product used as the main ingredient for pet food.

It comes from the grinding of the clean parts of poultry by-products.



POULTRY LIVER

Liver dried through spray-drying is an ideal raw material for treatment formulations. Liver is extremely appealing and an excellent source of protein.



POULTRY FAT

Poultry fat is produced by "wet fusion", adding a clarification process to improve its taste and stability. It is developed specifically for its use in recipes for pet food and agriculture formulations. It's high in essential omega acids and low in humidity.



HYDROLYZED PROTEIN

The poultry concentrate (powder/pellet) is obtained through a "wet fusion" process which separates protein and fat from water, to be afterwards concentrated by evaporation and dried by spray-drying. Due to this specific process, it contains a mixture of peptides and polypeptides with different molecular chain lengths which are highly water soluble. The protein digestibility is high (>97%). It is used as a protein bonding agent, as well as a palatability enhancer for animal nutrition.



HYDROLYZED FEATHER MEAL

It is produced from the hydrolyzation of poultry clean feathers. It features high level contents of crude protein (85-90%) and cysteine. The crude ash level is low (<2%). High protein digestibility (85%). It is used in pet food as a source of high value proteins.



BLOOD MEAL

It has been proven that local blood meal securely replaces a proportion of fishmeal in fish food. Poultry blood meal is high in crude protein (>90%) and it has a digestibility of more than 95%. It is a good source of essential amino acids, particularly Lysine. Due to the high amounts of histidine, blood meal is able to prevent cataract in salmon.



DUNA YPC 55

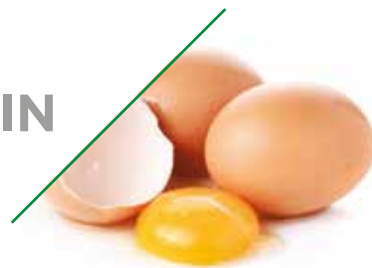


Product with **high protein content, obtained through the production of ethanol from wheat, without OMG and without anti-nutritional properties.** The sophisticated process of separation and posterior concentration of the fibres provides high protein content. During the fermentation NSP degrading enzymes are used (non-starch polysaccharides).

☆ Benefits:

- The drying process is performed with CO₂ (75 °C) avoiding oxidation of the final product.
- The combination of wheat and yeast ensures a high biological value of the protein.
- Produced following European Standards and developed after scientific research.
- Its low level of ash and fibre and its lack of FAN make Duna YPC 55 a source of proteins ideal for young animals (piglets, calves and poultry).
- Great flexibility and no dosage limitations.

EGG PROTEIN



🍳 POWDERED WHOLE EGG

Dried with "spray-dried" technology. Egg protein is highly digestible as well as being considered the one with the highest biological value (pattern protein) because of its balanced composition of essential amino acids.

☆ Benefits:

- Remarkable for its low microbiological activity and its aroma
- High in Choline, Tryptophan and Selenium

PRODUCT	Protein	Fat	Appearance
Powdered whole egg	47%	41%	Thin powder
Pelleted whole egg	47%	41%	Pellet
MUCOVO (egg + intestinal mucus)	60%	21%	Thin powder



SPECIALITIES



ACTIVE

Natural living yeast authorised by EU (E-1710) which amplifies digestive and fermenting processes in piglets, sows, fattening calves, dairy cows, horses and small ruminant.

☆ Benefits:

- Provides essential nutrients for animal's growth, maintenance and productivity.
- Releases enzymes to amplify digestive and fermenting processes.
- Allows a more efficient digestion and a better use of the nutritional properties in feed.
- Encourages the animal to ingest a bigger amount of feed.
- Affects pH and intestinal flora regulation.



ECHOMOS

Cell wall extract from yeast *Saccharomyces Cerevisiae*. Product rich in Mannan-oligosaccharide (MOS) and (1,3) - (1,6) β -Glucans.

☆ Benefits:

- Prebiotic and immunostimulant action.
- Adsorbs mycotoxins.



RIBOCLEN

Riboclen is a product rich in Nucleotides 5' and nucleic acids obtained through the enzymatic hydrolysis of yeast. It contains 75% of protein and more than 32% of free Nucleotides (Monophosphate 5')

- o Nucleic acids > 65.00%
- o Free amino acids > 8.0%



MYCOTOXIN ADSORBENTS



ADSORBENE CLAY

Layered phyllosilicates formed mainly by white Bentonite (Smectites), Zeolites and Sepiolites to achieve a double result: to enhance smectites effect against aflatoxins and to block other toxins thanks to the Zeolites.



ADSORBENE HEPATYC

This is a very complete product since it combines the mycotoxin adsorbent's effect with protecting the animal's liver.

For that purpose, it combines Adsorbene Clay with a mixture of organic selenium, Vitamin E and Milk Thistle extract (Silymarin).



ADSORBENE GLUCAN

The proven action of (1-3) - (1-6) β -glucans and glucomannan with helical structure against aflatoxin and ZEA, together with the high adsorption capacity of Zeolites and Smectites, make this product the ideal solution for ZEA problems where other mycotoxins, such as aflatoxin or fusariotoxins, are also present.



ADSORBENE COMPLEX

Technological additives pre-mixture composed by white Bentonite, Zeolites and Sepiolite combined with cell wall extract and micronized wheat fibre (MWF).

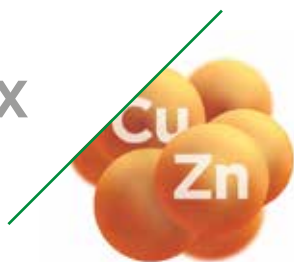
MWF is a product obtained from wheat bran through a patented technique. The basic material is subjected to prior checks to ensure high bacteriological purity.

The manufacturing patent is based on a special cold micronization process (<90 micron) (Cryo-micronization) which increases its biological properties, allowing amongst other things, enzymes usually blocked inside very cutinized bran cells, to be released.

PRODUCT	AFLA	OTA	DON	ZEA
Adsorbene Clay	+++	++	+	++
Adsorbene Hepatyc	+++	++	+	++
Adsorbene Glucan	++	+	+	+++
Adsorbene Complex	+++	++	++	+++



KEY MAX



KEY-MAX is a supplement with a stabilising function over the microbiotic intestinal flora using essential oligoelements. It comes in two formats: Liquid (Key-MAX) and powder (DRY-MAX).

It is used to prevent diarrhoea during all reproductive stages when the nourishment's quality changes (booting, post-weaning, etc.) as well as after vaccination and treatments with antibiotics or even during stressful situations.

☆ Benefits:

- KEY-MAX provides Zinc and Copper chelates, completely absorbable and it contains anti-stress and immunostimulant properties.
- KEY-MAX has a positive impact in the well-being and the health of pigs.



EXTRA-PHYLL

EXTRA-PHYLL is a complementary feed for piglets, pigs and sows, based on fermented cereal (mixture between cereal and soya) and extracts from weeds from the Italian Alps.

EXTRA-PHYLL is based on the knowledge and activation of enzymatic and catalytic functions which occur in a natural way within the plant kingdom.

☆ Benefits:

- Improves feed's efficiency: less feed for a higher meat production.
- Improves starch and fibre' digestion.
- Improves nutrients' absorption and metabolism.
- Prebiotic effect.
- Heat resistant.
- Nutritional matrix is available.
- Available in liquid and powder form.
- Also available for Organic Agriculture.





Avenida de Mercurio, 4
28229 Villanueva del Pardillo (Madrid)

T. 916363370
info@abnspain.com

www.abnspain.com