



Animal Nutrition Development
Gta. Pte. Segovia, 3, 13 A
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www.andnutrition.com
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and additives

FEED HYGIENE + NUTRITIONAL ACTIONS

“The correct products and the right assessment”

Feed hygiene is becoming more and more important, because of several reasons. First of all consumers want to know that there is a total control in the food chain, and farmers and feed producers are a very important part of this chain. HACCP, ISO, GMP... are words that are starting to enter in our vocabulary, like it happens in another sectors, like human food.

We need to be prepared and assure that the feed we are giving to our animals is safe and free of non-desirable substances. In the modern feed industry there are powerful tools to help in minimizing contamination, at a low cost.

In the other hand there is the producer own interest. A safer feed makes healthier animals, and better performances, so more benefits.

AND has created an easy to use, but complete range of additives that, linked to our experience in feed production, will help you in achieving the target you want:

CLEAN FEED AT THE BEST PRICE

With *and additives*, we offer a full portfolio of products, designed to improve the health and performance of your animals.

Organic acids and their salts, buffering substances, soluble fibers, antioxidants, yeasts, different carriers and minerals that have proven nutritional actions in the animals, are chosen and combined here to reach what you are looking for:

HEALTH AND PERFORMANCE



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CLEAN FEED AT THE BEST PRICE

andMOLD

Specific strong anti-mold additive for feed

andSALM

Specific anti-bacterial additive for feed

andSORB

Specific mycotoxin absorbent for feed

andTOTAL

Mycotoxin adsorbent + organic acid against molds

HEALTH AND PERFORMANCE

andCID1

Specifically designed mix of organic and inorganic acids for animals.

andCIDLIQUID

Acid blend for drinking water

andGUT 40

Gut-health enhancer for pigs. Fiber and acids. Against diarrhea

andBUT & andBUT EVO

Double buffered sodium butyrate.

COWYEAST

pH regulator for ruminants.

GLUKODIET 40 & GLUKOSA

Dietetic complement for dairy cows, sheeps and goats.

Soild presentation

andRABBIT FIBER

Growth promoters and pH regulator for rabbits.

andOX

Synergic mix of antioxidant substances.





CLEAN FEED AT THE BEST PRICE

andMOLD

*Specific strong anti-mold additive for feed
Liquid or solid presentation*

andSALM

*Specific anti-bacterial additive for feed
Liquid or solid presentation*

andSORB

*Specific mycotoxin absorbent for feed
Solid presentation*

andTOTAL

*Mycotoxin adsorbent + organic acid against molds
Solid presentation*



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andMOLD

Specific strong anti-mold additive for feed

“Feed hygiene must be a priority for all producers, prevention of molds is prevention of mycotoxins”

OBJETIVES:

Control and prevention of molds in feed destined to all animals. Anti mold and antimicrobial effects. Metabolic action (acidification). Mixed acids are more effective than one alone (synergic effect). Propionic acid is a recognized mold growth stopper. Formic acid is added to increase antimicrobial effects and to make wider the pH range of actuation. Addition of organic acids is used to increase digestibility of feed in piglets and older pigs.

INGREDIENTS:

Mixed organics acids and their salts. Propionic acid (E-280), formic acid (E-236)

HOW TO USE IT:

Consult the program with the andnutrition specialist team:

Depending on conditions (moisture and temperature).

Low risk: 1 kg per Tm of feed.

High risk: 2 kg per Tm of feed.

PRESENTATION:

Powder. 25 kg. bags

Liquid: 1000 l IBC container.



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andSALM

Specific anti-bacterial additive for feed

“Feed hygiene must be a priority for all producers, a low bacterial charge in feed is the first step for high performance”

OBJETIVES:

Control and prevention of problems (diarrhea, bad performances....) due to the presence of pathological bacterium in pigs (and other animals).

A high amount of organic acids helps controlling bacterium and molds. Short chain organic acids helps controlling Gram negative bacteria (*Salmonella spp.* and *E.coli*) without disturbing Gram positive naïve flora (lactic flora). Mixed acids are more effective than one alone (synergic effect). Formic acid has a big antimicrobial effect. There is also a metabolic action (acidification) the addition of organic acids is used to increase digestibility of feed in piglets and older pigs.

INGREDIENTS:

Mixed organics acids and their salts. Formic acid (E-236), propionic acid (E-280)

HOW TO USE IT:

Consult the program with the andnutrition specialist team:

Depending on conditions (moisture, initial contamination and temperature).

Low risk: 1-2 kg per Tm of feed.

High risk: 2- 3 kg per Tm of feed.

PRESENTATION:

Powder. 25 kg. bags.

Liquid: 1000 l IBC container





andSORB

Specific mycotoxin absorbent for feed

“Mycotoxins will not be a problem anymore”

OBJETIVES:

Control and prevention of micotoxicoses (diarrhea, bad performances, reproductive problems....) due to the presence of micotoxins (produced by the secondary metabolism of molds), in pigs (and all species).

Normal micotoxins are Aflatoxin, Ocratoxin, Zearalenone, Fumitoxine, Vomitoxine....

INGREDIENTS and CHARACTERISTICS:

Hydrated Aluminium-silicate Na-Ca.

Its alveolar structure and dipolar character assures a high percentage of absorption.

HOW TO USE IT:

Consult the program with the andnutrition specialist team:

Treatment of confirmed contaminated feed: 5 kg per Tm. 5-7 days.

Prevention of mycotoxicoses in normal risks conditions: 1-2 kg per Tm.

Prevention of mycotoxicoses in high risks conditions (high moisture and temperature): 2-3 kg per Tm

PRESENTATION:

Powder. 25 kg. bags





andTOTAL

Specific mycotoxin absorbent for feed + Specific strong anti-mold additive for feed

“Mycotoxins and molds (their producers) will not be a problem anymore”

OBJETIVES:

Control and prevention of molds in feed destined to all animals. Anti mold and antimicrobial effects. Metabolic action (acidification). Mixed acids are more effective than one alone (synergic effect). Propionic acid is a recognized mold growth stopper. Addition of organic acids is used to increase digestibility of feed in piglets and older pigs. Control and prevention of micotoxicoses (diarrhea, bad performances, reproductive problems....) due to the presence of micotoxins (produced by the secondary metabolism of molds), in pigs (and all species).

Normal micotoxins are Aflatoxin, Ocratoxin, Zearalenone, Fumitoxine, Vomitoxine....

INGREDIENTS and CHARACTERISTICS:

Organic acid: Propionic acid (E-280): 40%

Hydrated Aluminium-silicate Na-Ca. Its alveolar structure and dipolar character assures a high percentage of absorption. : 60%

HOW TO USE IT:

Consult the program with the andnutrition specialist team:

Prevention of molds and/or mycotoxicoses in normal risks conditions:

1 - 2 kg per Tm.

Prevention of molds and/or mycotoxicoses in high risks conditions (high moisture and temperature): 2 – 3 kg per Tm

PRESENTATION:

Powder. 25 kg. bags



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HEALTH AND PERFORMANCE

andCID1

*Specifically designed mix of organic and inorganic acids for animals.
To be added in the feed for preservation and physiological positive actions.*

andCID LIQUID

*Specifically designed mix of organic and inorganic acids for animals.
To be added in the drinking water*

andGUT 40

*Gut-health enhancer for pigs. Soluble fiber, tannins and acids.
Prevention and treatment of unspecific diarrhea.*

andBUT & andBUT EVO

*Double buffered sodium butyrate.
Increases daily feed intake and growth..*

COWYEAST

is a natural prebiotic combination that improves rumen's function and the feed digestibility.

GLUKODIET 40 & GLUKOSA

*Dietetic complement for dairy cows, sheeps and goats.
Solid presentation*

andRABBIT FIBER

*Growth promoters and pH regulator for rabbits.
Stops and prevents intestinal disorders*

andOX

*Synergic mix of antioxidant substances.
Preserves vitamins and fat rancidity in the feed*





andCID1

OBJECTIVES:

- Better hygienic quality of feed and water
- To low the stomach pH (just weaned piglets)
- Partial reduction in duodenum pH
- To save H⁺
- Working as growth promoters
- Less gut pathology (diarrhea)

Specially designed dry acidifier for piglets in the grower phase (12 to 25 kg), for pigs in the fattening phase (25-100 kg), and for sows and boars if required (diarrheas in the farrowing crate, kidney or reproductive problems...)

INGREDIENTS:

Organic and inorganic acids. Special substrats.

HOW TO USE IT:

Consult the program with the andnutrition specialist team:

USE	DOSE
Piglets from 6 to 12 kg	3-4 kg/Tm
Piglets from 12 to 35 kg	2-3 kg/Tm
Pigs from 35 kg to 110 kg	1-2 kg/Tm
Sows (gestation or lactation)	1-2 kg/Tm

NEW CONCEPT IN ACIDIFICATION	
COMPOSITION	TRIPLE ACTION
Synergic association of organic and inorganics acids.	Best digestibility (activation of digestive enzymes). Less undigestible parts in feed, with less diarrhea and less mortality.
Organics acids and their derivates	Useful as bactericide and bacteriostatic, feed preserver. Feed hygiene. Anti-mold.
Short chain organic acids (Volatile Fatty Acids), very rich in Butiric Acid	Positive orientation of intestinal microflora (increasing the acidophile bacteria like <i>Lactobacillus spp.</i>) Growth of intestinal cells (enterocytes).

PRESENTATION:

Powder. 25 kg. bags.

Liquid: 1000 l IBC container





andCID LIQUID

Concentrate liquid acid for drinking water

OBJECTIVES

- Better hygienic quality of feed and water
- To low the stomach pH (just weaned piglets)
- Partial reduction in duodenum pH
- To save H⁺
- Working as growth promoters
- Less gut pathology (diarrhea)

Specially designed LIQUID to be added in the drinking water of all age's pigs: Little piglets at weaning (6 to 12 kg), piglets in the grower phase (12 to 25 kg LW), for pigs in the fattening phase (25-100 kg), and for sows and boars if required (diarrheas in the farrowing crate, kidney or reproductive problems...).

INGREDIENTS:

Organic and inorganic acids. Buffering substances. Special substrats.

HOW TO USE IT:

Consult the program with the andnutrition specialist team:

0,5-1 liter kg per 1000 liters in pigs feed. Adjust pH to 4,5 – 6

PRESENTATION:

25 liters containers.





andBUT

Double buffer, allows the butyrate to be protected from dissociation in pH range from 2 to 7.

The stability that a sodium butyrate needs to reach the small intestine and colon.

OBJETIVES:

andBUT has got 4 major actions:

- Increases consumption of feed, because it reminds the young animals of the smell of mother's milk
- Secretion of pancreatic enzymes action.
- Improves the development of beneficial flora of the gut, while inhibits the growth of pathogenic bacteria and fungi.
- Natural source of energy for the intestinal cells.

INGREDIENTS:

Sodium, potassium, calcium feeding fatty acids salts. Excipients.

HOW TO USE IT:

Add to animal feed for animals of all species.

Consult the program with the and nutrition specialist team.

DOSES:

When?	Kg per ton
Piglets from weaning to 12 kg	3 – 4 kg.
Piglets from 12 to 25 kg	2 – 3 kg.
Pigs from 25 to 50 kg	1 – 2 kg
Sows	1 – 2 kg.
Ruminants pre-weaning	3 – 4 kg.
Ruminants post-weaning	3 – 4 kg.
Broilers	1 – 2 kg
Laying hens	2 kg
Rabbits	2 kg

PRESENTATION:

Powder. 25 kg. Bags



andBUT EVO

The most stable butyrate. Double buffer, allows the butyrate to be protected from dissociation in pH range from 2 to 7. The stability that a sodium butyrate needs to reach the small intestine and colon. Specially blended with vegetable carrier with a prebiotic action (FOS)

OBJETIVES and MAJOR ACTIONS: andBUT has got 4 major actions:

- **Increases consumption of feed**, reminds the young mammals of the smell of mother's milk, making them eat much earlier (Galfi, 1993).
- **Secretion of pancreatic enzymes action**. Volatile fatty acids (VFA) stimulate the secretion of pancreatic juices (amylase, proteases and lipases). (Katch & al. 1989)
- **Improves the development of beneficial flora of the gut** (*Lactobacillus spp.* and *Bifidobacteria spp.*) lactic acid producers in the gut. Inhibits the growth of pathogenic bacteria (*E. coli* and *Salmonella spp.*) and fungi. Allows a better balance in the intestinal flora. (Gafi & Neogradi 91, 92)
- **Natural source of energy for the intestinal cells**. VFA are energetic source for colon cells. Increases the villi size by 30%. Increase the surface for the absorption of nutrients (Galfi, 1993).

INGREDIENTS:

Sodium, potassium, calcium feeding fatty acids salts. Special active vegetable carriers (source of soluble fibre with prebiotic action)

HOW TO USE IT:

Add to animal feed for animals of all species.

DOSES:

When?	Kg per ton
Piglets from weaning to 12 kg	4 – 6 kg.
Piglets from 12 to 25 kg	4 – 5 kg.
Pigs from 25 to 50 kg	2 – 4 kg
Sows	2 – 4 kg.
Ruminants pre-weaning	5 – 7 kg.
Ruminants post-weaning	5 – 7 kg.
Broilers	2,5 – 5 kg
Laying hens	4 kg
Rabbits	4 kg

PRESENTATION:

Powder. 25 kg. bags.



COW-YEAST

Rumen regulator for dairy cows.

INGREDIENTS:

Products and by-products derivate from the fermentation of *Saccharomyces erevisiae* on different vegetal and mineral substracts.

OBJETIVES:

COW-YEAST is a natural prebiotic combination that improves rumen's function and the feed digestibility.

It increases the digestibility of feed and silage, and helps to empty the rumen

ADVATAGES FOR DAIRY COWS

- Increases the digestibility
- Increases the energy to the cow
- Increases the milk production
- Increases the protein rate in the milk
- Reduces metabolic diseases like ketosis and acidosis.

HOW TO USE IT

Dairy cows: 6 to 20 g per cow and per day

(0,5 to 1 kg x Tm in the concentrated feed)

PRESENTATION:

Powder. 25 kg. Bags



GLUKODIET 40

Dietetic complement for dairy cows, sheeps and goats.

INGREDIENTS:

Glycerol (E422) and vegetal carrier

ACTIONS:

- Increases the glucose level in the blood.
- Limits the production of ketonic components.
- Assures a high fecundity and fertility rate.
- Increases the milk production

HOW TO USE IT

In the ruminants feed, as glycogen precursor, following these doses:

- Sheep and goat: 30 - 400 gr./ day.
- Dairy cows: 350 - 1250 gr. /day.

In cows, to prevent the production of ketonic bodies, administered from 2-3 weeks before birth until 3-6 weeks after birth.

To prevent the alterations in fecundity, continued treatment with half dose until the time of insemination.

In sheep and goats, to prevent the problems of pregnancy toxemia, administered from 6-8 weeks prior to birth until 3 weeks after birth.

PRESENTATION:

Powder. 25 kg. Bags



GLUKOSA

Dietetic complement for dairy cows. Natural prevention of ketosis (clinical and subclinical). It increases the milk production.

INGREDIENTS:

Total glucose precursors active ingredients: 49.5%
Glycerol (pharmaceutical quality) (E422).
Calcium propionate (E282).
1,2 propanodiol (monopropylene glycol)(E490)
Niacin
Cobalt sulphate (vitamin B12 precursor)
Colloidal silica (E551b)
Clay Sepiolite (E562)
Calcium carbonate (E170)
Vegetable Bran

ACTIONS:

- Increases the glucose level in the blood.
- Limits the production of ketonic components.
- Decreases sub clinical acidosis
- Assures a high fecundity and fertility rate.
- Increases the milk production (200 – 600 kg in the lactation)

HOW TO USE IT

Dairy cow: pre and post Calving

In the ruminants feed, as glycogen precursor, following these doses:

Pre calving : from 2 weeks (minimum) to 3 weeks (optimum) before
300 g/day

Post calving from 3 weeks (minimum) to...4 weeks (optimum) after 300
g/day

PRESENTATION:

Powder. 25 kg. Bags



andRABBIT FIBER

New generation of acidifiers with Volatile Fatty Acids (VFA), salts of VFA (sodium butyrate), inorganic acids and natural essential oils for its use in rabbit feeds.

OBJETIVES and MAJOR ACTIONS:

It acidifies and diminishes the buffer capacity of the food, maintaining the organoleptic qualities of it.

It increases the production of endogenous amylases.

It optimises the production of VFA in the caecum (it contributes VFA and VFA precursors, keeping the adequate proportion of VFA).

It protects and participates in the regeneration of the endothelium cells.

INGREDIENTS:

Phosphoric acid (E338)

Acetic acid (VFA) (E260)

Sodium salt of volatile fatty acids (butyrate)(E470)

Colloidal silica (E551b)

Natural aromatic substances c.s.p.

Vegetable carrier c.s.

HOW TO USE IT:

Add to animal feed for rabbits.

DOSES:

In the feeds for rabbits, as an acidifier and addition of VFAs, in a proportion of 5 –10 kg/ton.

PRESENTATION:

Powder. 25 kg. bags.





andOX

Synergic mix of antioxidant substances.

Their synergic action (more than addition) keeps feed and premixes free of oxidation, because one antioxidant substance alone is not enough.

Don't let oxidation damage your profit!

OBJETIVES:

Prevention of oxidation in feed and premixes. Specially indicated in high concentrate vitamin premixes and high fat feed. When the amount of unsaturated fatty acids is high andOX will prevent their oxidation.

PROBLEMS RELATED WITH FEED OXIDATION

1. Losses of vitamins
2. Less palatability .
3. Losses in proteins and energy.
4. Toxic metabolites.
5. Sanitary problems.

INGREDIENTS:

Depolimerised ethoxyquin
Quelants
Polyphenols from natural sources
Propyl gallate
Surfactant

HOW TO USE IT:

Add to animal feed for animals of all species.

Consult the program with the and nutrition specialist team.

DOSES:

100 grams (0,1 kg) of andOX per ton of feed

PRESENTATION:

Powder. 25 kg. Bags





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trust the specialists



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