



INNOVATIVE PRODUCTS IN THE AGRICULTURAL AND LIVESTOCK SECTOR.

Products for the livestock sector:

HigePlus3® is a product developed in another project for the UN, oriented in a perfect disinfection and sanitation of the walls and floors of farms, stables and factories in general.

Absor4® is a product developed to work in synergy with HigePlus3® framed within the project for UN, this time to improve the conditions of animal welfare and DOES NOT GENERATE ANY RESIDUE

Absor4® is the ideal substitute for straw, rice husk or shavings in farms and stables because it not only absorbs water from liquid deposits (up to 6 times its weight) but also neutralizes them so that the environment for animals is innocuous. It is currently used in chicken farms, cows, lambs and for raising pigs. It also has a very wide use in horse stables.

Its most notable feature is that the product, after having been used as a bed in farms or stables, is revalued as an organically grown substratum (**Absor4® Pro**).

Activator® FOR ANIMAL FEEDING AND FOR PURINES AND ESTIERCOL is magnesium sulphate activated with oxygen that allows to activate bacteria and microorganisms in two functions:

1. **ANIMAL FEEDING:** allows to activate the bacteria and microorganisms that animals have in the intestinal tract and thus reduce the amount of nitrates and methane and reduces the level of micro toxins.
2. **PURINES AND STRETCHER:** activates the bacteria and microorganisms responsible for neutralizing slurry and manure.

Products for the agricultural sector are:

Fertil4® and Reten4® that were developed in the framework of a project for the UN, for Mali between 2008 and 2009.

These growing substrates allow a water saving of up to 90% and a saving of up to 70% of fertilizers since they allow to reduce the amount of use. Its durability, once applied on the ground, is between 5 and 8 years.

This product made from cellulose and coconut fibers, palm and wood acts as a sponge with which it does not contaminate underground aquifers and therefore saves water and fertilizers.

This product is capable of regenerating desert soils and depleted soils.

Absor4® Pro is the product that comes from Absor4® once it has been used on the farm. Once it has been applied to agricultural land, it allows a saving of up to 50% of water and up to 40% of fertilizers. Its ability to retain water and retain nutrients once applied in the field allows it to be very useful to increase crops as well as to regenerate soils.

OxiActivator® has been developed within the framework of the ecological farm within a European project of the EU. It is based on obtaining a greater yield of the fruit improving the health of the plant and thus having a lower cost.

This product is magnesium sulphate activated with oxygen that allows to give vigor and revitalize the growth of the plants. Activates the bacteria and microorganisms that drain the soil, improves the growth of the roots, strengthens the immune system of the plants, promotes the formation of humus and reduces the level of micro toxins.

With the use of this product the plants and fruits are bigger, with better flavor and their growth is more vigorous.

The OxiActivator® product has the Quality Certificate No. QMA11079E.QZ12-1.V-8 accredited by **AGRECO RFGÖDERZ GMBH** by which the product is accredited to be usable in organic farming according to Regulation (EC) No. 834/2007 and Regulation (EC) No. 889/2008.

AminoVIT + ® has been developed within the framework of the ecological agricultural exploitation within a project for the UN. It is a powder compound rich in iron and amino acids enriched with organic humus that allows a correct nutrition of crops with a minimum cost.

OxiActivator® for animal feed and for PURIN and ESTIERCOL have been developed within the framework of livestock exploitation within a European project of the EU. It is based on using the **OxiActivator®** product as a prebiotic / probiotic when used in animal feed, thus reducing the amount of nitrates in the feces and the methane emission of the animals; and, use **OxiActivator®** as a treatment to neutralize slurry and manure so that when applied to the field, plants are not burned and the emission of odors is reduced.



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OxiActivator® - Feed Additive

What is OxiActivator® - Feed Additive?

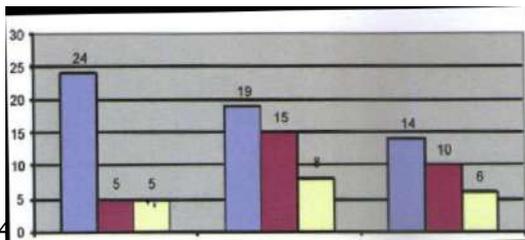
It is a stimulant of the conversion of ammonia, methane and nitrogen oxide based on magnesium sulfate containing active oxygen.

What are the achievements of OxiActivator® - Feed Additive?

OxiActivator® - Feed Additive improves the air and environment on the farm due to the reduction of environmental ammonia, as well as methane and nitrogen oxide. This translates into a greater tranquility of the animals, which favors an improvement in the daily intake of the same, making the average gain increase.

The qualities of the product can be summarized in:

1. Improve conversions and GMD
2. Reduce ammonia
3. Measurements of Ammonia before, during and after fattening in baits and piglets



Baits and Piglets	Ammonia	Nitrogen	Methane
Before	> 35ppm	> 3,5ppm	> 120ppm
During	< 4ppm	< 1,2ppm	< 30ppm
After	< 8ppm	< 2,0ppm	< 50ppm

5. Reduces stress and aggressiveness of animals
6. Improvement of livestock health by decreasing diarrhea (minimal use of antibiotics)

In which animals can OxiActivator® - Feed Additive be applied and at what dose?

It is suitable for all species.

The ideal recommended doses are:

- Birds: 350g OxiActivator® - feed additive / feed MT
- Cattle / Cattle: 1,5g OxiActivator® - Feed additive / animal and day
- Other species: 200g OxiActivator® - feed additive / feed MT

What happens to slurry / manure when using OxiActivator® - Feed Additive?

The slurry / manure becomes more homogeneous and its viscosity is lower. That allows it to be easier to mix and remove from the raft.

The crusts that form in the slurry ponds are 60% weaker than those formed by animals that have not ingested OxiActivator® - Feed Additive.

The amount of ammonia is lower and partially neutralizes the pH of the slurry / manure allowing that when it is applied in the field it does not deteriorate the plants on which it is deposited.

OxiActivator® - Additive for Drinking Water

What is OxiActivator® - Additive for Drinking Water?

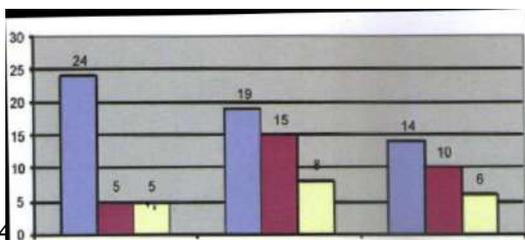
It is a stimulant of the conversion of ammonia, methane and nitrogen oxide based on magnesium sulfate and common salt that are activated with a novel treatment that allows interacting as prebiotic / probiotic.

What are the achievements of OxiActivator® - Drinking Water Additive?

OxiActivator® - Additive for drinking water improves the air and the environment in the farm due to the reduction of environmental ammonia, as well as methane and nitrogen oxide. This translates into greater tranquility of the animals, which favors an improvement in the daily intake of the same, making the average gain increase.

The qualities of the product can be summarized in:

1. Improve conversions and GMD
2. Reduce ammonia
3. Measurements of Ammonia before, during and after fattening in baits and piglets



Baits and Piglets	Ammonia	Nitrogen	Methane
Before	> 35ppm	> 3,5ppm	> 120ppm
During	< 4ppm	< 1,2ppm	< 30ppm
After	< 8ppm	< 2,0ppm	< 50ppm

5. Reduces stress and aggressiveness of animals
6. Improvement of livestock health by decreasing diarrhea (minimal use of antibiotics)

In which animals can OxiActivator® be applied - Additive for drinking water and in what dose?

It is suitable for all species.

The ideal recommended doses are:

- Birds: 1,5Kg OxiActivator® - Additive for Drinking Water /10.000L
- Cattle / Cattle: 1.5Kg OxiActivator® - Additive for Drinking Water /10.000 L
- Other species: 1Kg OxiActivator® - Additive for Drinking Water /10.000 L

What happens to slurry / manure when using OxiActivator® - Drinking Water Additive?

The slurry / manure becomes more homogeneous and its viscosity is lower. That allows it to be easier to mix and remove from the raft.

The crusts that form in the slurry ponds are 60% weaker than those formed by animals that have not ingested OxiActivator® - Drinking Water Additive.

The amount of ammonia is lower and partially neutralizes the pH of the slurry / manure allowing that when it is applied in the field it does not deteriorate the plants on which it is deposited.



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OxiActivator® - Purine / Manure Additive

What is OxiActivator® - Purine / Manure Additive?

It is a stimulant of the conversion of ammonia, methane and nitrogen oxide based on magnesium sulfate containing active oxygen and a neutralizer of pH

What are the achievements of OxiActivator® - Purine / Manure Additive?

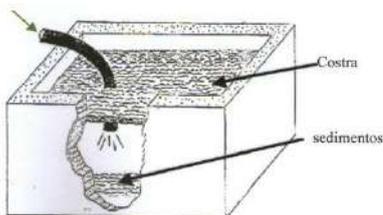
1. From 21 days after its application the product is at 85% yield in slurry / slurry raft and the following results are obtained:
2. Decreases the viscosity of the slurry / manure (makes it more liquid)
3. Improve the homogeneity of slurry / manure
4. Reduce the ammonia present in the slurry / manure
5. Prevents the deterioration of the crop because the pH is not so aggressive for plants
6. Reduce odors present in your agricultural application
7. Improves humus formation.

Where OxiActivator® - Purine / Manure Additive can be applied and at what dose?

The ideal recommended doses are:

- First shock application Balsa de Purin: 3Kg OxiActivator® - Additive for Manure / Manure / 1000 L of water for 100m3 of slurry. Inject directly into the lower part of the raft.
- Purine Raft every 3 months after the shock application: 1.5Kg OxiActivator® - Purine / Manure Additive / 1000 L of water for 100m3 of slurry. Inject directly into the lower part of the raft.

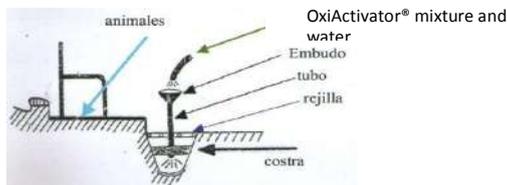
OxiActivator® mixture and water



- For Manure: 1,5Kg OxiActivator® - Purine / Manure Additive / 200 L of water for 100m3 of manure. Spray directly on top.
- For grids on the ships:

- o Piglets / pigs: 3 g OxiActivator® - Purine additive / Animal manure / week
- o Cattle / heifers: 5 g OxiActivator® - Purine additive / Animal manure / week

Dissolve each 50g-500g of OxiActivator® - Purine / Manure Additive with 10L-100L of water and water through the grate. The amount of water depends on the size of the grid and the surface to be treated. If it is not previously dissolved in water, the product is destroyed in direct contact with the slurry.



What happens to slurry / manure when using OxiActivator®

- Purine / Manure additive?

Empty slurry raft - 60cm solids



Purine raft with crust



Slurry pond after 4 weeks of application Oxiactivator® - Purine / Manure additive



OxiActivator® PURIN working at 100%

Balsa de purin after 4 weeks of application Oxiactivator® - Purine / Manure - additive and Oxiactivator® application - Feed additive



OxiActivator® PURIN working at 100% -Bullet purin without crust

Application of slurry without Oxiactivator® - Purine / Manure additive and slurry application with Oxiactivator® - Purine / Manure additive

WITHOUT OxiActivator® and water



With OxiActivator® and water

ANALYSIS AND STUDY APPLICATION OF THE PRODUCT

RESULTS OBTAINED IN THE FIELD TESTS CARRIED OUT DURING THE YEARS 2009, 2010, 2011, 2013, 2014, 2015 AND 2016

REGION: The Monegros (Spain)

MEDIUM PLUVIOMETRY: 350mm per year

LAND PREPARATION: 1,00Kg FERTIL4® per square meter (Depth 0 – 15cm).

FERTILIZERS: NPK (triple 15) with essential trace elements.

OTHER TREATMENTS: products to increase crop yields. The combined use of OxiActivator® and AminoVIT+® is recommended for performance enhancement, disease protection, increase crops yield until 50% and improved crop development.

Depending on the duration of the crop, in general, we have applied: First

application:

1 kg per hectare or 1g per tree OxiActivator®

5 days later:

1 kg per hectare or 1g per tree AminoVIT+®

Second application (after 30-45 days of first application): 1 kg per

hectare or 1g per tree OxiActivator®

5 days later:

1,5 kg per hectare or 1,5g per tree AminoVIT+®

Third application (after 30-45 days of second application): 1 kg per

hectare or 1g per tree OxiActivator®

5 days later:

1,5 kg per hectare or 1,5g per tree AminoVIT+®

GROVE	NET INCOME
Dosage 2Kg/ha	
GREEN BEANS	+ 18,7% Poverty size
CABBAGE "TRERO"	+ 13,6% Diameter +18,2% Weight +19,6% Root Length
EGGPLANTS	+26,7% Tn/ha
BRUSSELS SPROUTS	+22,3% weight



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LEEKs	+18,6% Length +10,5% Diameter +34,9% Weight
PEACH	+19,1% Weight
BROCCOLI	+23,2% Weight
RUFF "MYRNA"	+06,1% Weight
CHERRY TOMATO	+15,0% Weight
CELERY	+09,2% Weight
POTATOES "KARAT"	+04,9% Weight
TOBACO "BELW3"	+07,3% Weight
GRAPE (4x500g/ha GROWING PERIOD) From 2009 To 2011	+03,5% °Brix +++ Plant's health +++ Resistance against diseases

PHOTO CROP RESULTS

CELERY
After TREATMENT *



CELERY Before
TREATMENT *

* TREATMENT: OxiActivator® and AminoVIT+®

BROCCOLI
After TREATMENT



BROCCOLI Before
TREATMENT *

* TREATMENT: OxiActivator® and AminoVIT+®



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WHEAT, CORN AND CORZA	
Dosage 2Kg/ha	NET INCOME
SUMMER WHEAT "TRISO"	52,1 Qm/ha No treatment 56,3 Qm/ha After treatment +4,2% Qm/ha Harvest
SUMMER WHEAT "CAPO"	50,0 Qm/ha No treatment 53,1 Qm/ha After treatment +3,1% Qm/ha Harvest
SUMMER WHEAT	+03,5% Harvest +23,5% 1Kg Weight +01,2% Grain weight
CORN	10.926 kg/ha No treatment 12.580 kg/ha After treatment +15,1% Weight
CORZA	35,3 Qm/ha No treatment 38,3 Qm/ha After treatment +3,0% Qm/ha Harvest

OLIVE TREE	
Dosage 2g/tree	NET INCOME
CUQUILLO	17,5% No treatment 20,1% After treatment +2,6% IMPROVES

MANGO	
Dosage 3g/tree	NET INCOME
KEENT	23Tn No treatment 39Tn After treatment +69,6% Weight

ONION	
Dosage 2Kg/ha	NET INCOME
FUENTES SWEET ONION	675Kg No treatment (513Kg Big onion – 76,0%) 758Kg After treatment (661Kg Big onion – 87,2%) +12,3% Weight

ALFALFA	
Dosage 1,5Kg/ha	NET INCOME
ALFALFA FIRST YEAR	8.506,1Kg/ha No treatment 9.283,5Kg/ha After treatment +09,14% Weight

POTATO	
Dosage 3Kg/ha	NET INCOME
ASTERIX	64.250 Kg/ha No treatment 69.759 Kg/ha After treatment +8,6% Weight

PHOTO CROP RESULTS:

POTATO
Before TREATMENT *



POTATO After
TREATMENT *

* TREATMENT: OxiActivator® and AminoVIT+®

And finding the document in accordance, it is signed to a sole effect at the place and date stated in the heading of the present one.

CONTACT ✓



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