

# Crop Production and Pest Control

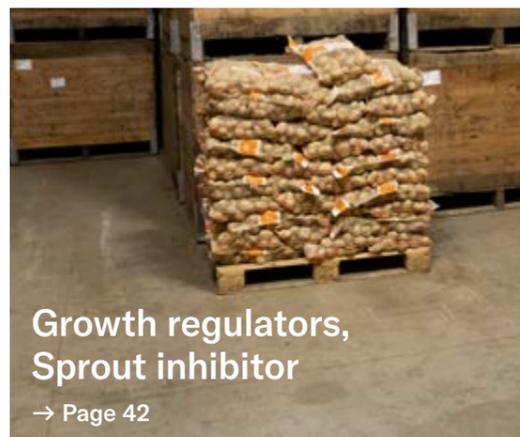
Portfolio 2022





**More and more consumers ask for food that is free of residues and has been produced according to standards that respect the environment. We at Andermatt enable the production of healthy food while maintaining a healthy environment for all. Our R&D, regulatory and technical expertise around the globe provides high-quality products and services to develop alternative solutions to conventional pesticides and fertilisers. Together with you we can make a real change to realise our vision.**

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Daniel Zingg



# Our biocontrol technologies



## At Andermatt, we offer a large number of biocontrol products against a broad range of different pest insects and diseases

In 1988, the development and production of highly selective insecticidal viruses laid the foundation of Andermatt Group in Switzerland. Ever since, our research and development experts around the globe have pioneered in developing novel biological plant protection technologies by adding fungal, bacterial and other biocontrol products, biofertilisers and bioinoculants to our portfolio.

By providing high-quality biological solutions for both organic and conventional farming, the Andermatt Group has evolved from pioneer, to global player, in the agricultural industry. With

19 subsidiaries on 4 continents, as well as with local distributors in more than 60 countries, farmers get access to our broad portfolio to address and solve challenges of today's agriculture.

Our products are approved and listed for the use in organic farming in many countries. We received certificates from the Research Institute of Organic Agriculture (FiBL), OMRI, SGS, BFA, BioGro New Zealand, and others.

① We also offer unformulated raw material.

## Characteristics and Benefits

- Highly effective pest control
- Zero residues
- Safe for user
- Harmless to beneficials and the environment
- Ideal for resistance management
- Easy to use and apply
- For conventional, IPM or organic production
- Naturally-occurring, non-toxic and non-GMO



# Bio-Insecticides



## Madex

### Pest

Codling moth (*Cydia pomonella*) is one of the world's most serious pests in apples and pears. Since it is able to adapt to various climatic conditions, management strategies need to be adjusted according to its local developmental characteristics.

### Product

Madex contains a *Cydia pomonella* granulovirus and offers highly effective control of codling moth. Due to the alternative mode of action the product is an excellent tool for the sustainable management of codling moth.

Madex was the first commercially available product based on baculovirus worldwide and has been successfully applied for 30 years. Madex can be used for organic production, but is also an effective product for use in IPM and conventional control programs.

### Madex Top, Madex Max, Madex Primo, Madex Plus

The Madex line includes several products based on different CpGV isolates. They have been selected to maintain CpGV efficacy in orchards with otherwise resistant codling moths present. Therefore these isolates are effective tools for a sustainable fruit protection.

## Product Facts

### Against

Codling moth  
(*Cydia pomonella*)

### Active ingredient

*Cydia pomonella* granulovirus  
(CpGV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$3 \times 10^{13}$  OB/l

### Standard rate

100 ml/ha

### Crops

Apple, pear, walnut, quince  
and others



## Madex Twin

### Pest

Oriental fruit moth (*Grapholita molesta*) is a serious pest in stone fruit. It frequently migrates to pome fruit orchards in the late season, where it can cause substantial fruit damage before harvest. Oriental fruit moth is able to complete its entire life cycle on alternative hosts such as apple, cherry, plum and quinces.

Codling moth (*Cydia pomonella*) is one of the world's most serious pests in apples and pears. Since it is able to adapt to various climatic conditions, management strategies need to be adjusted according to its local developmental characteristics.

### Product

Madex Twin provides a highly specific and residue-free combined control of oriental fruit moth and codling moth. Madex Twin is the right choice for commercial pome fruit orchards with both oriental fruit moth and codling moth infestation.

### Madex Duo

Madex Duo is a new product development based on a different CpGV isolate. While maintaining the combined control of oriental fruit moth and codling moth, Madex Duo is also effective against codling moths resistant to CpGV.

## Product Facts

### Against

Oriental fruit moth and codling moth (*Grapholita molesta*, *Cydia pomonella*)

### Active ingredient

Cydia pomonella granulovirus (CpGV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$3 \times 10^{13}$  OB/l

### Standard rate

100 ml/ha

### Crops

Peach, nectarine, apple, pear, quince, apricot, almond, cherry, plum and walnut



## Capex

### Pest

Summer fruit tortrix (*Adoxophyes orana*) is present in Europe and Asia. The polyphagous caterpillars feed on leaves, buds and fruits, causing serious damage to various crops. In Europe, summer fruit tortrix mostly affects pome and stone fruit production, whereas in Asia this species is also a pest in tea plantations.

### Product

Capex offers highly effective and selective control of summer fruit tortrix populations without harming beneficials in the orchards. The infected larvae are killed in the last larval instar. On apples, the early application of Capex on overwintering larvae effectively reduces pest damage.

Infected larvae produce large amounts of new viruses, providing a high infection potential for the next generation. Capex can be combined with mating disruption and other insecticides.

## Product Facts

### Against

Summer fruit tortrix (*Adoxophyes orana*)

### Active ingredient

Adoxophyes orana granulovirus (AoGV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$5 \times 10^{13}$  OB/l

### Standard rate

100 ml/ha

### Crops

Apple, pear, rose, plum, cherry, apricot, peach, currant, gooseberry and others



## Cryptex

### Pest

The larvae of the false codling moth (*Thaumatotibia leucotreta*) are extremely polyphagous. They are responsible for major damage to citrus in Southern Africa, and to a large number of other crops in Sub-Saharan Africa. False codling moth is also present in Israel where it causes damage in citrus, macadamia, avocado, pomegranates as well as other crops.

### Product

Cryptex contains an isolate of *Cryptophlebia leucotreta* granulovirus (CrleGV) which was isolated from a population of false codling moth from South Africa.

Cryptex can be applied without additives such as molasses or sugar and prevents damage within the first year of application. Moreover, Cryptex applications early in the season provide long term control of false codling moth populations.

## Product Facts

### Against

False codling moth (*Thaumatotibia leucotreta*, formerly: *Cryptophlebia leucotreta*)

### Active ingredient

*Cryptophlebia leucotreta* granulovirus (CrleGV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$2 \times 10^{13}$  OB/l

### Standard rate

200 ml/ha

### Crops

Citrus, avocado, pomegranate, bean, cotton, grape, macadamia, ornamental, corn, pepper, stone fruit, tea and many others

## Helicovex

### Pest

The cotton bollworm (*Helicoverpa armigera*) and other *Helicoverpa* species belong to the most damaging pests of economic importance on a global level. They are known to gradually develop resistance against several chemical substances. The larvae are extremely polyphagous and feed on many different plant structures including stems, leaves, flower heads and fruits. The adults are known to migrate over long distances.

### Product

Helicovex is a tool for the efficient and sustainable control of the cotton bollworm and other *Helicoverpa* species, such as *Helicoverpa zea* or *Helicoverpa virescens*. Considering its favourable toxicological and residue-free profile and the high compatibility with other products, Helicovex is well suited for organic production, integrated plant protection strategies and resistance management programs.

## Product Facts

### Against

Cotton bollworm (*Helicoverpa armigera*), corn earworm (*Helicoverpa zea*) and other *Helicoverpa* species

### Active ingredient

*Helicoverpa armigera* nucleopolyhedrovirus (HearNPV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$7.5 \times 10^{12}$  OB/l

### Standard rate

200 ml/ha

### Crops

Soybean, tomato, sweet pepper, sweet corn, cotton, bean, tobacco, lettuce, sunflower and many others



## Spexit

### Pest

The beet armyworm (*Spodoptera exigua*) is one of the most destructive polyphagous pest species of worldwide economic importance. Beet armyworms occur in Mediterranean countries, North America, Asia and Africa, and invade the cooler Northern regions as far as temperatures permit their development.

Young beet armyworm larvae feed on the lower surface of leaves. Fully-grown larvae devour foliage completely, leaving only major veins.

### Product

Spexit is suited for the efficient control of *Spodoptera exigua* larvae on various crops. The use of Spexit significantly reduces crop damage and pest population. Due to its high selectivity, Spexit is a valuable and efficient tool for integrated pest control programs using beneficial insects.



## Product Facts

### Against

Beet armyworm  
(*Spodoptera exigua*)

### Active ingredient

*Spodoptera exigua*  
nucleopolyhedrovirus  
(SeMNPV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$3.75 \times 10^{12}$  OB/l

### Standard rate

200 ml/ha

### Crops

Sweet pepper, tomato, melon, strawberry, sugar beet, cotton, cabbage, lettuce, sweet corn, onion and many others



## Tutavir

### Pest

Originating in South America, tomato leafminer (*Tuta absoluta*) was found in Spain in 2006 and has been spreading throughout the Mediterranean region but also continental Europe, the Middle East and Africa. The larvae of the pest mine into leaves and fruits which can fast lead to complete crop loss. Many tomato leafminer populations are resistant to a wide array of pesticides, both chemical and biological.

### Product

Tutavir selectively controls the tomato leafminer and is well suited for population and damage control. Tutavir is a great candidate for integrated pest management programs, as it is highly compatible with other inputs, pollinators and beneficial insects. Because of its unique mode of action, Tutavir is an important tool for resistance management in conventional and biological production systems.

## Product Facts

### Against

Tomato leafminer  
(*Tuta absoluta*)

### Active ingredient

*Phthorimaea operculella*  
granulovirus (PhopGV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$2 \times 10^{13}$  OB/l

### Standard rate

100 ml/ha

### Crops

Tomatoes and other solanaceous crops



## Plutex NEW

### Pest

The diamondback moth is one of the most abundant pest species occurring all over the world and it is a threat wherever its host plants of the Brassicaceae family occur. Diamondback moth adults are wind-borne and can migrate over long distances and can become a pest in regions where the pest cannot overwinter due to low temperature.

### Product

Plutex is effective against diamondback moth feeding on various crops and significantly reduces crop damage and pest population. Thanks to the unique mode of action, Plutex is an important tool for resistance management.

## Product Facts

### Against

Diamondback moth  
(*Plutella xylostella*)

### Active ingredient

Plutella xylostella granulovirus  
(PlxyGV)

### Formulation Type

Suspension concentrate (SC)

### Concentration

$2.5 \times 10^{13}$  OB/l

### Standard rate

100 ml/ha

### Crops

Brassicaceae like cabbage, broccoli and canola

## Littovir

### Pest

The Egyptian cotton leafworm (*Spodoptera littoralis*; top right) and the fall armyworm (*Spodoptera frugiperda*; top left) are extremely polyphagous pests that attack more than 180 plant species of economic importance. The Egyptian cotton leafworm is widespread in Africa, the Middle East and the countries of the Mediterranean basin. The fall armyworm is widespread in North and South America and is spreading in Asia and Africa.

While young larvae cause feeding damage to leaves, older caterpillars defoliate plants completely and bore into young stalks, buds, fruits and bolls. Due to their biology and the risk of developing resistance against chemical insecticides, the control of *Spodoptera littoralis* as well as *Spodoptera frugiperda* is challenging and demands new solutions.

### Product

Littovir is a highly selective larvicide against the Egyptian cotton leafworm and the fall armyworm. Littovir offers residue-free and effective control, resulting in more flexibility when included in existing pest control and resistance management strategies.

## Product Facts

### Against

Egyptian cotton leafworm  
(*Spodoptera littoralis*) and fall armyworm  
(*Spodoptera frugiperda*)

### Active ingredient

*Spodoptera littoralis* nucleopolyhedrovirus (SpliNPV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$5 \times 10^{11}$  OB/l

### Standard rate

200 ml/ha

### Crops

Row crops like corn and soybean, vegetables and many other crops





## Spodovir Plus

### Pest

The fall armyworm (*Spodoptera frugiperda*) is a highly polyphagous lepidopteran pest, feeding on at least 180 plant species from over 40 families. It causes major damage to economically important crops such as corn, sorghum, rice and soybean. *Spodoptera frugiperda* originated in the Americas and was first detected in Africa in 2016. Since then, fall armyworm has been spreading rapidly across the African continent and found its way to Asia, where it has established in several countries within the region. In January 2020, fall armyworm has been first recorded in Australia and has spread rapidly throughout the country.

### Product

Spodovir Plus is a highly effective larvicide against the fall armyworm based on the *Spodoptera frugiperda* nucleopolyhedrovirus (SfMNPV). It offers farmers a safe and highly efficient tool against one of today's most destructive and fast spreading agricultural pests.

## Product Facts

### Against

Fall armyworm  
(*Spodoptera frugiperda*)

### Active ingredient

*Spodoptera frugiperda* nucleopolyhedrovirus (SfMNPV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$5 \times 10^{11}$  OB/l

### Standard rate

50 – 200 ml/ha

### Crops

Corn, sorghum, rice, soybean and many others

## Loopovir

### Pest

The soybean looper (*Chrysodeixis includens*) can be found on the American continent from Argentina to Canada. Its wide distribution and its polyphagous behavior, feeding on plants in 28 families, underlines the importance to develop adequate control tools and strategies. Although soybean looper feed on a wide range of host plants, it is generally considered to be a major pest of soybean and tomato. On soybean, larvae start feeding on foliage in the lower canopy and slowly work their way up and outwards. Once the plant is defoliated, the pods are attacked.

### Product

Loopovir is a highly effective biological tool to control soybean looper (*Chrysodeixis includens*). Loopovir also offers the farmer an important resistance management tool that can be included in every Integrated Pest Management program (IPM).

## Product Facts

### Against

Soybean looper  
(*Chrysodeixis includens*)

### Active ingredient

*Chrysodeixis includens* nucleopolyhedrovirus (ChinNPV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$5 \times 10^{11}$  OB/l

### Standard rate

50 – 200 ml/ha

### Crops

Soybean, tomato and others



## Loopex

### Pest

The cabbage looper (*Trichoplusia ni*) is a highly migratory and destructive pest of various crops, especially in greenhouses in North America, but it is also widely distributed in the tropics and subtropics. Cabbage loopers can severely defoliate plants. Early instar larvae feed on the lower surfaces of leaves, while larger caterpillars cause more conspicuous damage. Resistances to various insecticides have become a severe problem in cabbage looper control.

### Product

Loopex offers highly efficient biological control of *Trichoplusia ni* larvae, by preventing damage and management of *Trichoplusia ni* populations. Loopex is a valuable tool that can be included in any pest control program, especially as an additional resistance management tool and for the control of insecticide resistant populations. Due to its high selectivity, Loopex is a safe option for cabbage looper control in production systems using beneficial insects.

## Product Facts

### Against

Cabbage looper  
(*Trichoplusia ni*)

### Active ingredient

Autographa californica nucleopolyhedrovirus (AcMNPV)

### Formulation type

Suspension concentrate (SC)

### Concentration

$5 \times 10^{11}$  OB/l

### Standard rate

50 – 200 ml/ha

### Crops

Typically on brassica crops e.g. cabbage, broccoli, collards, kale. Also present on: tomato, lettuce, pea, potato, etc.



OMRI listed by Andermatt USA

## Nomu-Protec

Nomu-Protec contains the insect-pathogenic fungus *Metarhizium rileyi*<sup>1</sup> strain PHP1705 which infects and controls Lepidopteran pests, especially those belonging to the Noctuidae family. Nomu-Protec's unique formulation prevents the fungal spores from drying out and enhances penetration and infection through the "skin" or cuticle of the insect.

Once inside the insect, the fungus grows and multiplies. Death is caused by internal tissue destruction. Sporulation and further spread of *Metarhizium rileyi* in the field is possible.

### Advantages

- Unique formulation
- Control of various lepidopteran pests, especially Noctuids
- No residues and no withholding period after application
- Compatible with baculoviruses
- Effective population management and ideal for use in IPM and resistance management programs

## Product Facts

### Against

*Helicoverpa* spp., *Spodoptera* spp., *Chrysodeixis* spp., *Trichoplusia ni* and various other Noctuids

### Active ingredient

*Metarhizium rileyi* strain PHP1705

### Formulation type

Wettable powder (WP)

### Concentration

$1 \times 10^8$  CFU/g

### Standard rate

300 – 1000 g/ha as a full cover spray

### Crops

Wide range of crops

<sup>1</sup> Previously known as *Nomuraea rileyi*



## Bb-Protec

Bb-Protec contains the insect-pathogenic fungus *Beauveria bassiana* strain R444 which infects and controls whitefly, spider mite, mealybug, and various other agricultural insect pests. Bb-Protec's unique formulation prevents the fungal spores from drying out and enhances penetration and infection of the pest.

The active ingredient *Beauveria bassiana* R444, is a naturally-occurring, soil-borne entomopathogenic fungus. *Beauveria bassiana* spores attach to and penetrate through the "skin" or cuticle of the insect. Once inside the insect, the fungus grows and multiplies. Death is caused by internal tissue destruction. In numerous greenhouse and field trials Bb-Protec proved to be highly effective against mealybug, woolly aphid, spider mite, whitefly, false codling moth and other pests on a variety of crops.

### Advantages

- Unique formulation
- Control of a broad spectrum of insect pests
- No residues and no withholding period after application
- Effective against all stages of the life cycle of most pests
- Effective population management and ideal for use in IPM and resistance management programs
- Compatible with baculovirus products



## Product Facts

**Against**  
Various agricultural insect pests such as mealybug, woolly aphid, thrips, whitefly, spider mite, false codling moth, citrus red mite, and other insect pests

**Active ingredient**  
*Beauveria bassiana* strain R444

**Formulation type**  
Wettable powder (WP)

**Concentration**  
 $1 \times 10^8$  CFU/g

**Standard rate**  
300–1000 g/ha as a full cover spray or drench into soil

**Crops**  
Wide range of crops



## SilicoSec

SilicoSec is a registered plant protection product for the control of all crawling insects in grain and empty storage rooms. The active ingredient Kieselgur leads to desiccation of the insects.



## Product Facts

**Active ingredient**  
Silicium dioxide/Kieselgur (diatomaceous earth)

**Standard rate**  
1–2 kg/t grain,  
10 g/m<sup>2</sup> in empty storage

**Area of application**  
Stored grain and empty storage rooms



## Abietiv

The balsam fir sawfly (*Neodiprion abietis*) is a native sawfly species that occurs throughout North America. Its larvae are a significant defoliating pest of balsam fir (*Abies balsamea*). *Neodiprion abietis* nucleopolyhedrovirus (NeabNPV) is a naturally occurring biocontrol agent for aerial application, isolated from sawfly populations in Newfoundland, Canada.

### Product Facts

**Against**  
Balsam fir sawfly  
(*Neodiprion abietis*)

**Active ingredient**  
Neodiprion abietis nucleopolyhedrovirus (NeabNPV)

**Application area**  
Balsam fir (*Abies balsamea*)

## Lymantria dispar MNPV

The gypsy moth (*Lymantria dispar*) is present in North America, Europe, North Africa and Asia. Its larvae feed on developing leaves of more than 300 tree species causing significant growth loss in forested ecosystems as well as in residential communities. *Lymantria dispar* MNPV (LdMNPV) is a baculovirus product for efficient control of the gypsy moth larvae. LdMNPV is the specific solution for interfering in a complex and diverse ecosystem. This baculovirus product is formulated in a easy to use liquid formulation.

### Product Facts

**Against**  
Gypsy moth (*Lymantria dispar*)

**Active ingredient**  
*Lymantria dispar* multiple nucleopolyhedrovirus (LdMNPV)

**Application area**  
Mainly on deciduous hardwood trees (oak, maple, elm and many more)

# Bio-Fungicides



Left untreated Control  
Right AmyProtec 42



## AmyProtec 42

### Protects your root system

AmyProtec 42 is a biological soil fungicide, containing spores of the naturally occurring soil bacteria *Bacillus velezensis*. In the root zone, the bacteria outcompete soil-borne pathogens, such as *Rhizoctonia* and *Erwinia*, by accessing space and nutrients and creating a disease-inhibiting protective shield. AmyProtec 42 activates the plant's natural defence mechanisms through induced systemic resistance. Enhanced root growth allows the plant to escape the susceptible state faster before plant emergence. These elements combined prevent from damping-off and stem infections caused by soil-borne pathogens.

AmyProtec 42's unique mode of action helps the plant to build stronger and healthier roots and to improve its tolerance towards biotic (pathogens) and abiotic (water deficiency, salinity) stress.

### A perfect tool for integrated programs

AmyProtec 42 can be mixed with almost all agrochemicals, using a wide range of application methods. Start treatments in early plant development and use AmyProtec 42 as an efficient part of integrated plant protection programs, as residue free resistance management tool and to reduce the use of conventional fungicides.

## Product Facts

### Key benefits

Pathogen displacement and induction of systemic resistance

### Active ingredient

*Bacillus velezensis* (synonym *Bacillus amyloliquefaciens* spp. *plantarum*) FZB42

### Formulation type

Suspension concentrate (SC)

### Concentration

$>2.5 \times 10^{10}$  CFU/ml

### Standard rate

0.5 – 2 l/ha depending on crop and application method

### Application methods

Seed treatment, drenching, soil-spraying, injection into hydroponics, in combination with agrochemicals, etc.





## T-77

T-77 contains the beneficial fungus *Trichoderma atroviride* strain 77B, a very effective aerial *Trichoderma* strain. The *Trichoderma* fungus colonises any plant wound or senescing plant tissue, and prevents pathogens such as *Botrytis* and trunk diseases (e.g. *Eutypa lata*) from penetrating the plant. Thus, T-77 is effective against *Botrytis* on stems, leaves, flowers and fruits. In the same way, pruning wounds on grapevines and other fruit trees are protected against the entrance of pathogens. Grapevine trials have shown that the protecting fungus may still be present one year after application. Furthermore, T-77 also has the ability to parasitise and destroy fungal pathogens.

T-77 can either be applied as full cover spray or as a directed spray on pruned surfaces.

### Advantages

- Prevents pathogen infection in senescing or damaged plant tissues
- Efficient *Botrytis* protection in greenhouses and open fields
- Fewer plant and yield losses
- Vineyard's productive life is extended as a result of disease prevention (e.g. *Eutypa lata*)
- Increased postharvest shelf life

## Product Facts

### Key benefits

Colonises damaged or senescing plant tissues and prevents pathogen infection, such as *Botrytis* spp., trunk diseases (e.g. *Eutypa lata*), *Monilinia* spp., etc.

### Active ingredient

*Trichoderma atroviride* strain 77B

### Formulation types

Wettable powder (WP)

### Concentration

$2 \times 10^9$  CFU/g

### Standard rate

250 – 750 g/ha

### Crops

Grape, tomato, onion, strawberry, nectarine, soybean, etc.

## VitiSan

Vitisan is a contact fungicide with preventive and curative effects against a wide range of fungal diseases without the risk of resistance development. This effective and residue-free fungicide is based on potassium bicarbonate with compelling advantages against *Oidium* and *Botrytis* in grapes. Vitisan also controls powdery mildew and *Botrytis* in vegetables, soft fruits and ornamentals as well as scab and sooty blotch and storage diseases in pome fruits.

Since its commercial introduction more than 15 years ago, Vitisan has become an important fungicide in organic viticulture and pome fruit production. Due to its non-residue and non-resistance development properties it is also very effectively applied within IPM strategies.

Vitisan is registered for a wide range of different crops against several major fungal diseases. The product can be applied as a stand-alone treatment but the addition of a wetting agent may improve the efficacy of Vitisan.

### Advantages

- Effective protection against a broad spectrum of fungal diseases
- No risk of resistance due to multiplex mode of action
- Short or even absent pre-harvest interval
- Beneficial friendly
- Fully compatible with organic and residue-free production

## Product facts

### Against

Powdery mildew, Scab, *Botrytis*, *Gloesporium*, *Monilia*

### Active ingredient

Potassium bicarbonate

### Fomulation type

Soluble Powder (SP)

### Standard rate

3–12 kg/ha depending on crop and crop size

### Crops

Grape, pome fruit, stone fruit, tomato, berries, etc.



## Curatio

Curatio is based on the active ingredient lime sulphur and is suited for controlling fungal diseases like scab, sooty blotch, Marssonina, Monilia, *Taphrina deformans* and powdery mildew. Curatio with its unique mode of action is a curative and preventive fungicide which is able to protect apples during long-lasting rainfalls without risk of resistance development.

### Advantages

- Very strong curative effect during the primary ascospore period of scab
- Curative effect against *Taphrina deformans*, plum rust (*Tranzschelia pruni*), cherry leaf spot (*Blumeriella jaapii*), Shot hole disease (Coryneum blight)
- Comparable with curative chemical IPM products; can replace a resistant chemical curative product
- No risk of resistance due to unspecific mode of action
- Residue-free
- Good side effect to Marssonina, Sooty blotch, Powdery mildew

## Product Facts

**Active ingredient**  
Calcium polysulphide  
(Lime sulphur)

**Formulation type**  
Dispersible concentrate (DC)

**Standard rate**  
4–12 l/ha

**Crops**  
Pome fruit, stone fruit,  
grape, etc.

# Biostimulants, Bioinoculants



Left untreated Control  
Right T-Gro



## T-Gro

T-Gro contains spores of *Trichoderma asperellum* strain kd, a soil-borne strain selected through extensive research. *Trichoderma* spores germinate in the soil and colonise the root zone of the plant. T-Gro enhances nutrient mobilisation and plant resistance to stress caused by sub-optimal conditions, such as waterlogging, drought or others. Thus, T-Gro supports the plant to develop a larger, healthier and more effective root system and can be applied to most crops.

Good results have been achieved on various crops, including potatoes, vegetables, nursery crops, pastures, fruit trees and turf. The method of application is flexible and depends on the crop type. T-Gro can be applied as a seed treatment, as an in-furrow spray or as a soil drench.

### Advantages

- Enhanced nutrient mobilisation
- Increase in crop quality and yield possible
- Improved tolerance to abiotic stress
- Versatile application methods
- Fully compatible with organic and residue free production

## Product Facts

### Key benefits

Improved nutrient mobilisation and tolerance towards abiotic stress

### Active ingredient

*Trichoderma asperellum* strain kd

### Formulation type

Wettable powder (WP)

### Concentration

$2 \times 10^9$  CFU/g

### Standard rate

250–500 g/ha

### Crops

Wide range of crops



## T-Gro Easy-Flow

T-Gro Easy-Flow is a specially formulated *Trichoderma asperellum* product on a graphite and talc-based carrier. It is the perfect seed flow lubricant to use with mechanical planters. T-Gro Easy-Flow improves nutrient mobilisation and helps buffer stress caused by extreme conditions such as waterlogging, drought or others. The formulation offers additional benefits to planting efficiency, such as a more even plant stand, no more skipped or doubled seeds, and more seeds planted per hectare.

The powder can be sprinkled on top of the seed in the seed hopper and stirred into the top seed layers. As the tractor moves, the agitation of the seed hopper ensures even distribution of the powder throughout the hopper. T-Gro Easy-Flow is the perfect *Trichoderma* seed treatment for broad acre crops like corn or wheat.

### Product Facts

**Key benefits**  
Specially designed to use with mechanical planters, more even plant stand, enhanced nutrient mobilisation, improved tolerance towards abiotic stress and improved seed flow

**Active ingredient**  
*Trichoderma asperellum*  
strain kd

**Formulation type**  
Graphite and talc based  
dry powder formulation

**Concentration**  
 $2 \times 10^9$  CFU/g

**Standard rate**  
1–40 g/kg seed  
(depending on seed size)

**Crops**  
For crops sown with  
mechanical planters

## RhizoVital 42/C5/P45

### The next generation plant inoculant

The product line RhizoVital offers a range of biostimulating microbial inoculants, containing spores of the naturally occurring soil bacteria *Bacillus velezensis* or *Bacillus atrophaeus*. The bacteria germinate in the soil and release enzymes which stimulate nutrient mobilisation. RhizoVital supports the availability of plant nutrients which can lead to yield increase. Tolerance to stress caused by unfavourable climatic conditions and field management can be improved. Use RhizoVital as an integral part of a future-oriented production strategy.

### Advantages

- Enhances tolerance to abiotic stress
- Increases nutrient mobilisation and yield potential
- Compatible with most fertilisers and plant protection products
- Easy to store and apply

	RhizoVital 42	RhizoVital P45	RhizoVital C5
<b>Bacteria species</b>	<i>Bacillus velezensis</i> (synonym <i>amyloliquefaciens</i> spp. <i>plantarum</i> )	<i>Bacillus velezensis</i> (synonym <i>amyloliquefaciens</i> spp. <i>plantarum</i> )	<i>Bacillus atrophaeus</i>
<b>Strain</b>	FZB42	FZB45	ABi05
<b>Key properties</b>	Increased plant nutrient mobilisation	Increased phytase-production favours P-mobilisation	Cold tolerance favours growth at low temperatures
<b>Temperature range for spore germination</b>	12–45 °C	12–45 °C	8–42 °C
<b>Formulations</b>	SC (liquid suspension concentrate) $2.5 \times 10^{10}$ CFU/ml TB (talcum based dry powder) $1 \times 10^9$ CFU/g SB (dextrose based dry powder) $1 \times 10^9$ CFU/g WG (starch based wettable granulate) $5 \times 10^{10}$ CFU/g		
<b>Shelf life</b>	2 to 4 years, when stored <25 °C, dry and protected from sunlight		
<b>Compatibility</b>	Compatible with fungicides and other plant protection products		

Ⓞ All *Bacillus* strains are also available as raw material e.g. for the formulation with fertilisers, seed coatings, etc.



## V12 Biostimulant range NEW

The V12 Biostimulant range is based on the 12 essential components of plant vitality, ie. the engine that drives plant growth.

The range consists of six different products, each with a unique blend of nutrients:

- V12 Foliars (V12 Multi and V12 Micro) provide balanced nutritional support, stimulate growth, fight stress and combat deficiencies.
- V12 Stage Nutrition (V12 Initiate, V12 Shoot, V12 Fruit and V12 Finish) supports and optimises targeted growth phases.

### Advantages

- Effective tailored nutrition to support critical growth stages
- Quickly addresses nutrient deficiencies
- Reduces and combats plant stress
- Optimises development in each growth phase to optimise yield potential

Product	Macro Biostimulants		Micro Bio-stimulants				Amino Acids						Vitamins				
	Kelp	Fulvic acid	Protein Hydrolysate	Triacon-tanol	Brassino-lide	TRP	GLY	GLU	PRO	LYS	MET	ARG	C	E	B1	B6+12	K Ligno-sulphanate
V12 Initiate	●	●	●														●
V12 Shoot	●		●	●			●	●					●		●		
V12 Fruit	●		●		●				●	●	●						
V12 Finish	●		●			●						●					
V12 Multi	●	●	●	●										●	●	●	
V12 Micro	●	●	●														

## UPP Biostimulants NEW

The newly developed UPP (Unlocking Plant Potential) biostimulant range offers enhanced plant growth solutions to growers in all agricultural sectors. UPP stands for "Unlocking Plant Potential". The range consists of four products each containing a different targeted biostimulant that impacts on a different specific plant growth stage. Active ingredients include specific amino acids, vitamins, plant alcohols and organic acids.

**Rhiz-UPP**  
Contains the biostimulants Tryptophan and Methionine. Improves root development and early growth in both annual and perennial crops.

**Shoot-UPP**  
Contains the natural fatty alcohol, Triacontanol as well as Ascorbic acid as a synergist. Stimulates processes related to photosynthesis (chlorophyll production) vegetative growth and supports stress tolerance.

**Set-UPP**  
Contains the steroidal lactone, brassinolide. Improves pollination resulting in improved fruit set and yield potential.

**Size-UPP**  
Contains the active ingredient n-ATCA (N-acetyl-thiazolidine-4-carboxylic acid). Supports cellular and enzymatic processes, most often observed in the form of increased fruit/grain weight.

### Advantages

- Biostimulants can assist growers to "produce more with less"
- Biostimulants target specific natural growth processes within plants
- Increasing or decreasing these specific functions unlocks greater potential for growth, yield, quality, stress tolerance and more



## AlgoVital Plus NEW

AlgoVital Plus is a bioestimulant based on brown algae (*Ascophyllum nodosum*). AlgoVital Plus increases the uptake of nutrients and water in horticulture and field crops. The product is commonly added on-farm to every spray mixture, to improve plant health and vitality. The algae extract in AlgoVital Plus contain a number of important substances, such as polysaccharides, alginates, mannitol, vitamins, minerals, main nutrients and micronutrients. These ingredients bring decisive advantages for the plant such as protection against biotic and abiotic stress factors, increased compatibility with plant protection products and other beneficial effects for the development of the crop.

### Advantages

- Increase uptake of nutrients and water
- Compatible with most fertilisers and plant protection products
- Enhances tolerance to biotic and abiotic stress
- To be used in a wide range of agricultural crops
- Easy to store and apply

## AminoVital NEW

AminoVital is a plant strengthener based on hydrolyzed amino acids of animal origin for foliar application. Amino acids play a crucial role in the metabolism of the plant. The plant usually synthesizes amino acids through the take-up of carbon, water and nitrogen. Through the application of AminoVital directly to the leaf surface the plant can absorb these amino acids directly and "save" the energy-intensive synthesis. Especially in stressful situations, AminoVital has a strengthening effect on plants. A well-nourished plant with healthy root development has a higher level of defense and resistance to climatic extremes.

### Advantages

- Enhances tolerance to abiotic stress
- Good distribution on the plant and good adhesion after drying
- Easy to store and apply
- Applicable to a wide range of crops

# Seed treatment



## Microbials for Seed Treatments and Coatings

Microorganisms that support the plant to build a strong and efficient root system, improving its tolerance towards stress caused by unfavorable conditions or soil pathogens.

Naturally occurring soil microorganisms germinate and colonize young growing roots. These beneficial microorganisms release enzymes and other compounds which stimulate plant growth and mobilize nutrients or have fungicidal and bactericidal effects. On seeds value is added on existing products, by improving germination rate, nutrient uptake, plant emergence and stand establishment.

Some specific strains, such as *Bacillus velezensis* FZB42 have proven to be able to control soil borne diseases such as Rhizoctonia or Fusarium. Seed coating with this strain provides protection during the most sensible period of plant emergence.

### Our service

- Delivery of various microorganisms
- Customized carriers and formulations
- Support for lab analysis of the end product
- Delivery of big and small quantities

## Product Facts

### Key benefits

- Simply processed into agro-inputs, seed treatments and coatings
- Compatible with most fertilizers and plant protection products
- Fungicidal, bactericidal or biostimulating effects, depending on your needs
- Good storage properties: up to 2 years

### Mode of action

Growth stimulation, increased stress tolerance and nutrient mobilization through bacterial enzymes and other compounds as well as fungicidal and bactericidal effects.

### Active ingredient

Spores of various Bacillus strains and other microorganisms

### Delivery type

The spores can be delivered in a customized form, depending on specific needs

# Growth regulators, Sprout inhibitor



## Biox-M

Biox-M is a naturally occurring germ inhibition product composed of spearmint oil. The mint oil of spearmint contains more than 70 percent L-carvone. L-carvone is an essential oil that provides both germ inhibition and disease protection (anti-fungal and anti-bacterial). The first treatment should happen when the potatoes are dry and cured, 6 to 20 days after harvest and ideally, prior to initial sprout development. As long as mint oil is in circulation, there is a preventive germ inhibition effect. If sprouts have developed more quickly, Biox-M can be used as a curative solution since it will also burn off the germs. After the application the tuber are germ-free for up to 4 weeks. Biox-M is applied through hot fogging (Electrofog Xeda).

### Advantages

- High flexibility since it can be used either preventive or curative
- No influence on fry color or taste and crops in neighbouring storage cells
- Natural product
- No toxic residues and short withholding period of three days after application
- Fungicidal and bactericidal effects

## Product facts

100% naturally occurring germ inhibitor used post-harvest in potato storage

### Active ingredient

Spearmint oil with 70% L-carvone

### Formulation type

Suspension concentrate (SC)

### Concentration

948 g Spearmint oil/l

### Application rate with hot fogging

1st treatment dose: 90 ml/t  
Subsequent treatment dose: 30 ml/t

For alternative application strategies contact us: [contact@andermatt.com](mailto:contact@andermatt.com)

### Waiting period

3 days (6 to 12 days regarding odour)



# Monitoring systems, Mass trapping



## Rebell, coloured sticky traps

**Rebell amarillo**  
Yellow traps for reliable monitoring or mass trapping of fruit flies

**Rebell bianco**  
Monitoring of sawflies and for the control of raspberry beetles

**Rebell blu**  
Monitoring of thrips

**Rebell giallo**  
Monitoring of white flies, leafminers, sciarid flies, etc.

**Rebell orange**  
Monitoring of carrot flies

**Rebell rosso**  
Monitoring or mass trapping of shothole borers in orchards and vineyards

**Glurex forte**  
Biodegradable solvent for the cleaning of Rebell traps

**Tangle-Trap glue**  
Insect glue for the reuse of Rebell traps

## Advantages of Rebell traps

- Specific, cadmium-free colours ensure high reliability and low by-catches
- Integrated UV filter assuring long-lasting colour fastness
- Strong polypropylene protects the traps from deformation
- Very strong glue performs even under severe weather conditions
- Possible to clean and re-use

## aPhinity EAB

Combination of a pheromone and a host leaf volatile, together with a green sticky trap for monitoring and early detection of Emerald Ash Borer (*Agrilus planipennis*).



## Drosal Pro and Drosalure 2.0

Drosal Pro is a cup trap system suited to be a component in an integrated control strategy against spotted wing drosophila (*Drosophila suzukii*). The cups can be filled with specific lures for spotted-wing drosophila. The lures attract spotted-wing drosophila into the body of the trap, where they drown. The cup trap system can be reused for several years.

Drosalure 2.0 is a highly attractive and stabilized attractant for spotted-wing drosophila based on peptides and organic acids. Drosalure 2.0 can be used in combination with Drosal Pro cups or any other kind of liquid trap system.

### Advantages of Drosal Pro and Drosalure 2.0

- Very easy set-up
- Reusable trap system
- Can be filled with the preferred lure (i.e. Drosalure 2.0)
- Up to 3 months efficacy in the field
- No waiting periods, no residue issues
- Long shelflife of the lure

## PheroNorm

Andermatt offers a large range of lures and traps for monitoring of economically important pest species.

### Advantages of PheroNorm

- Continuous, reliable quality for successful monitoring
- Available as single lures or as trap sets
- Standard monitoring system used by research institutes and advisory services all over the world

<i>Acrolepiopsis assectella</i>	Leek moth
<i>Adoxophyes orana</i>	Summer fruit tortrix
<i>Agrilus planipennis</i>	Emerald ash borer
<i>Agrotis ipsilon</i>	Black cutworm
<i>Agrotis segetum</i>	Turnip moth
<i>Anarsia lineatella</i>	Peach tree borer
<i>Anthonomus rubi</i>	Strawberry blossom weevil
<i>Autographa gamma</i>	Sylver-Y moth
<i>Bactrocera dorsalis</i>	Oriental fruit fly
<i>Byturus tomentosus</i>	Raspberry beetle
<i>Cameraria ohridella</i>	Chestnut leafminer
<i>Ceratitis capitata</i>	Medflies
<i>Contarinia nasturtii</i>	Swede midge
<i>Cossus cossus</i>	European goat moth
<i>Thaumatotibia leucotreta</i>	False codling moth
<i>Cydia nigricana</i>	Pea moth
<i>Cydia pomonella</i>	Codling moth
<i>Cydia splendana</i>	Honeylocust podgall midge
<i>Dasineura gleditchiae</i>	Honey locust pod gall midge
<i>Diabrotica virgifera</i>	Western corn rootworm
<i>Diaphania perspectalis</i>	Box tree moth
<i>Enarmonia formosana</i>	Cherry bark tortrix
<i>Eupoecilia ambiguella</i>	European grape berry moth
<i>Grapholita funebrana</i>	Plum fruit moth
<i>Grapholita lobarzewskii</i>	Small-fruit tortrix
<i>Grapholita molesta</i>	Oriental fruit moth
<i>Halyomorpha halys</i>	Brown marmorated stink bug
<i>Helicoverpa armigera</i>	Cotton bollworm

<i>Helicoverpa virescens</i>	Tobacco budworm
<i>Leucoptera scitella</i>	Pear leaf blister moth
<i>Lobesia botrana</i>	Grapevine moth
<i>Lygus rugulipennis</i>	European tarnished plant bug
<i>Lymantria dispar</i>	Gypsy moth
<i>Mamestra brassicae</i>	Cabbage moth
<i>Ostrinia nubilalis (Z)</i>	European corn borer
<i>Pammene rhediella</i>	Fruitlet mining tortrix
<i>Pandemis heparana</i>	Apple brown tortrix
<i>Pennisetia hylaeiformis</i>	Raspberry clearwing moth
<i>Phthorimaea operculella</i>	Potato tuber moth
<i>Plodia interpunctella</i>	Indian meal moth
<i>Plutella xylostella</i>	Diamond back moth
<i>Popillia japonica</i>	Japanese beetle
<i>Quadraspidiotus perniciosus</i>	San Jose scale
<i>Resseliella theobaldi</i>	Raspberry cane midge
<i>Rhagoletis cerasi</i>	Cherry maggot
<i>Scrobipalpa ocellatella</i>	Beet moth
<i>Sparganothis pilleriana</i>	Grape leaf roller
<i>Spilonota ocellana</i>	Eye-spotted bud moth
<i>Spodoptera exigua</i>	Beet armyworm
<i>Spodoptera frugiperda</i>	Fall armyworm
<i>Spodoptera littoralis</i>	Egyptian cotton leafworm
<i>Synanthedon myopaeformis</i>	Apple clearwing moth
<i>Synanthedon tipuliformis</i>	Currant clearwing moth
<i>Tuta absoluta</i>	Tomato leafminer
<i>Zeuzera pyrina</i>	Leopard moth

① Lures for other pest species available on demand

# Rodent control



## Smart solutions for efficient rodent control

### topcat – The vole trap. swiss made

The internationally patented topcat-trap is a very efficient, high-quality trap for catching voles from both tunnel directions. With its sensitive release mechanism and the possibility to check for captures above ground the topcat-trap is an effective tool for rodent control.

### topsnap – The clever mousetrap. swiss made

topsnap's tunnel-like body awakens the natural curiosity of mice. It is the environmental- and user-friendly alternative to toxic bait, for long-term use in indoor and outdoor areas.

### topsnap LR – The clever mousetrap with remote signaling. swiss made

topsnap LR is an advancement of our topsnap. The trap is equipped with a LoRaWAN antenna and temperature sensors. Trap catches can be easily monitored by email alert and in the WebApp where you can also find visualised traps statistics. Thus, expenses for the usual trap checks can be reduced.

### standby – The vole fence.

The internationally patented standby system is an easy and effective tool to prevent (re-)immigration of voles into a valuable area. Natural predators (foxes, cats and others) empty the live-catch traps along the fence making the standby vole fence a reliable and self-governed system of controlling voles.

### Advantages of the topcat-trap

- High quality product made of stainless steel
- Quick and easy handling
- Catches from both tunnel directions and efficient release mechanism
- Very sensitive release mechanism
- Can be used against voles, field mice, etc.

### Advantages of the topsnap-trap

- Innovative two-sided trapping system against small mice moving above ground
- High quality product made of stainless steel and solid plastic
- Easy, fast and secure activation of the trap from the outside
- Contact-free release of catch
- Safe for users, infants and domestic animals

# Macroorganisms



## Beneficial insects

**Adalia bipunctata**  
Ladybug against aphids.

**Phytoseiulus persimilis**  
Predatory mite against spider mites.

## Insect feed

**Ephestia kuehniella**  
Frozen eggs of *Ephestia kuehniella* serve as a main food source in the production of many different beneficial insects.

**Insect diet**  
Artificial diet for the rearing of insects.

## Insects for research

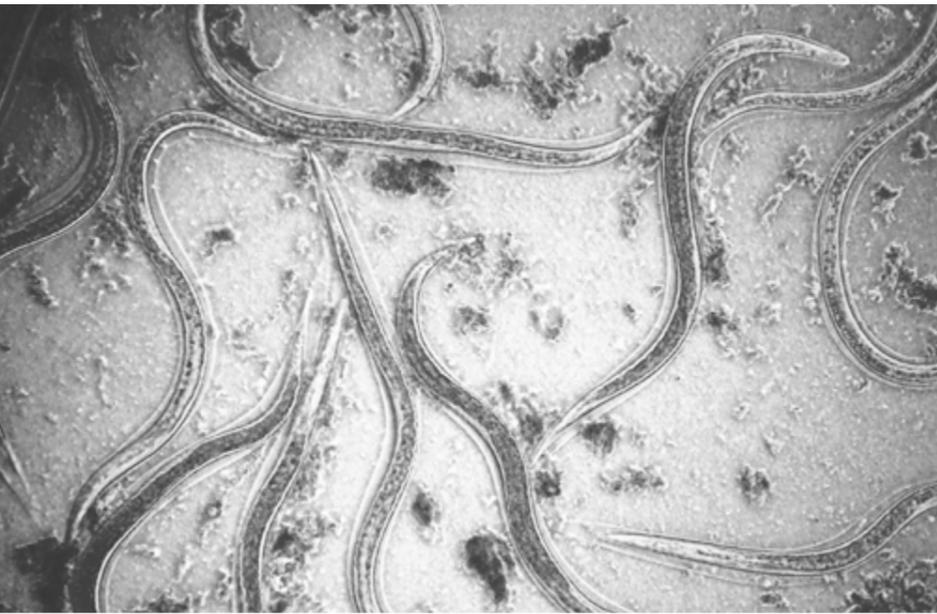
<i>Adoxophyes orana</i>	Summer fruit tortrix
<i>Cydia pomonella</i>	Codling moth
<i>Grapholita molesta</i>	Oriental fruit moth
<i>Helicoverpa armigera</i>	Cotton bollworm
<i>Phthorimaea operculella</i>	Potato tuber moth
<i>Spodoptera exigua</i>	Beet armyworm
<i>Spodoptera littoralis</i>	African cotton leafworm
<i>Tuta absoluta</i>	Tomato leafminer

## Product Facts

Andermatt has many years of experience in the production of beneficial insects.

## Product Facts

In the course of the production of baculovirus products, Andermatt has an interesting range of insects on offer for research.



## Entomopathogenic nematodes

Entomopathogenic nematodes occur naturally in the environment as parasites of many insect larvae. The mass release of these nematodes provides an efficient and curative control of key insect pests in a wide range of crops. Once released, nematodes actively seek out their hosts and penetrate into the insect releasing symbiotic bacteria that multiply and rapidly kill the insect.

### Advantages

- Entomopathogenic nematodes are a natural product and safe for users, consumers and the environment.
- Andermatt has been developing and marketing beneficial nematode products for over 30 years.
- Easy application with AquaNemix.

### **Heterorhabditis bacteriophora** against larvae of

- Black vine weevil larvae (*Otiorhynchus* spp.)
- Garden chafer (*Phyllopertha horticola*)
- Welsh chafer (*Hoplia* spp.)
- Hazelnut borer (*Curculio nucum*)
- Western corn rootworm (*Diabrotica virgifera*)

### **Steinernema carpocapsae** against larvae of

- Chestnut moth (*Cydia splendana*)
- Cutworm (*Agrotis* spp.)
- European pepper moth (*Duponchelia fovealis*)
- Flat-headed root borer (*Capnodis tenebrionis*)
- Leatherjacket (*Tipula paludosa*)
- Mole cricket (*Gryllotalpa gryllotalpa*)
- Palm weevil (*Rhynchophorus ferrugineus*)

### **Steinernema feltiae** against larvae of

- Codling moth (*Cydia pomonella*)
- Oriental fruit moth (*Grapholita molesta*)
- Plum fruit moth (*Grapholita funebrana*)
- Fungus gnat (*Lycoriella* spp., *Bradysia* spp.)
- Leafminer (*Liriomyza* spp.)
- Mushroom sciarid (*Lycoriella* spp.)
- Tomato leafminer (*Tuta absoluta*)
- Western flower thrips (*Frankliniella occidentalis*)

# Biocides, Animal Health



## InsectoSec

InsectoSec is a dustable powder made from fossilized diatoms which controls effectively the red fowl mite and all kind of crawling pests such as ants, silver fish, cockroaches and bed bugs. The effect is based on absorption of the lipid layer of the arthropod chitin exoskeletons. By destroying the natural water barrier InsectoSec is leading to death of the harmful insects through desiccation.

### Product Facts

**Active ingredient**  
Silicium dioxide/Kieselgur  
(diatomaceous earth)

**Standard rate**  
30 – 50 g/m<sup>2</sup>

**Application**  
Biocide for poultry farmers  
and pest control



## BioVet Branch NEW

### Premix for feeding to cattle and pigs

BioVet Branch can be given to cattle and pigs before and during the cold season. Eucalyptus, thymol and anethole relieve the bronchial tubes. At the first signs of loss of appetite to enhance the feed or to refresh the respiratory tract and build up resistance BioVet Branch can be mixed in the feed or in the drinking trough.

### Product facts

#### Ingredients

Diatomaceous earth, thymol, anethole, eucalyptus oil, clove oil, spruce needle oil

#### Feeding recommendation per animal/day

- Calves (50 kg): 1,5–3 g
- Cattle (250 kg): 5–10 g
- Cows (600 kg): 9–18 g
- Pigs: 480 g/t of feed

Please note that a period of habituation is required for individual animals. Therefore, we recommend slowly increasing the daily amount over 3 to 4 days until the indicated feeding recommendation is reached.

## Vermitor NEW

### Premix with minerals and plant extracts

In case of suspicion of worms or endoparasites in the chicken flock. Vermitor is a powder for mixing into chicken feed. The taste of the eggs is not negatively changed by the ingredients of Vermitor (oregano, worm fern, yucca and garlic).

### Product facts

#### Ingredients

Garlic, oregano, yucca, worm fern

#### Instruction of use

Use the premix continuously for 7 to 10 days and repeat every 6 weeks.

- Small stable: 20 to 50 g of Vermitor per 10 kg of chicken feed.
- Large stable: 2 to 5 kg of Vermitor per ton of chicken feed.

# About us



## Subsidiaries

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## Manufacturing companies

Andermatt has an international network of high-quality oriented manufacturers of bio-rational products for agricultural and non-agricultural use. Through these partnerships and shareholdings, we can deliver sustainable solutions around the globe. Due to significant research and development resources, technical expertise and a constant exchange with our customers we successfully fulfil the demands and needs of the market.



Andermatt Biocontrol Suisse AG was founded by Martin and Isabel Andermatt in 1988. With more than 30 years of experience in the development, formulation and production of virus-based biocontrol products, Andermatt Biocontrol Suisse is a global leader in Baculovirus production.

[www.biocontrol.ch](http://www.biocontrol.ch)



ABiTEP GmbH is a German biotech company specialised in the development of products for agriculture and horticulture based on naturally-occurring soil bacteria and other microorganisms. ABiTEP has a strong R&D focus with more than 30 years of experience working with beneficial *Bacillus* species.

[www.abitep.de](http://www.abitep.de)



Biofa AG joined the Andermatt Group in 2018. Originally founded in 1979, Biofa has its roots in the distribution of plant additives for organic farmers and has grown to become the largest supplier and manufacturer of bio-control and bio-fertiliser products in Germany.

[www.biofa-profi.de](http://www.biofa-profi.de)



Andermatt Kenya is a subsidiary of the Andermatt Group of Switzerland and was incorporated in Kenya in 2018. The company offers a wide range of biological (macrobial and microbial) crop protection solutions and bio-stimulants to growers across all sectors of agriculture in the vast East African region (Kenya, Uganda and Tanzania).

[www.andermatt.co.ke](http://www.andermatt.co.ke)



Andermatt PHP was initiated in 1998 by Prof. Mark Laing and Dr. Mike Morris under the name Plant Health Products (PHP) in KwaZulu-Natal, South Africa. The company specialises in the production of biocontrol products, particularly fungal based products for pest and disease control. Furthermore, PHP is a founding member of SABO, the South African Bioproducts Organisation.

[www.andermatt-php.co.za](http://www.andermatt-php.co.za)



Andermatt Madumbi was founded in 2006 and partnered with the Andermatt Group in 2010, bringing together the precision of the Swiss clock with the heartbeat of the African drum. Based in South Africa, the company has a reputation of biological excellence and is a recognised market leader in biorational solutions for commercial agriculture, urban farming as well as in the retail home and garden market.

[www.andermatt.co.za](http://www.andermatt.co.za)



Andermatt Canada was established in 2006 under the name Sylvar Technologies Inc. and joined the Andermatt Group five years later in 2011. The company is a North American leader in the development, production and commercialisation of Baculovirus based products for agriculture and forestry. Besides the development of bio-insecticides, Andermatt Canada also acts as a distributor of biocontrol products in the Canadian forest and agricultural market.

[www.andermattcanada.com](http://www.andermattcanada.com)



Since 2003 Andermatt BioVet AG supplies concepts and products for Animal- and Bee-Health fighting ectoparasites on farm animals and Varroa mites on bees. Andermatt BioVet empowers its professional and hobbyist customers to produce food without residues and at the same time improving animal health and wellbeing.

[www.biovet.ch](http://www.biovet.ch)



Andermatt Biogarten AG was founded in 2003 as a spin-off of the Andermatt Group. The company is active in an exciting and growing market to bring biological and sustainable solutions to everyone. Andermatt Biogarten has grown in the last 20 years to one of the largest manufacturer and distributor for home and garden products in Switzerland.

[www.biogarten.ch](http://www.biogarten.ch)

# Our team



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*Healthy Food and Healthy  
Environment, for all*