Product Portfolio 2021

Healthy Food and Healthy Environment, for all
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 Biocontrol Group 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.
Products

Our biocontrol technologies

Bio-Insecticides
Madex
Madex Twin
Capex
Cryptex
Heliacovex
Spexit
Tutavir
Litoviv
Spodovir Plus
Loopovir
Loopex
Abietiv
Lymnastrum dispar MNPV
SilicoSec
Bb-Protec
Nomu-Protec

Bio-Fungicides
AmyProtec 42
T-77
Curatio
VitiSan

Biostimulants, Bioinoculants
T-Gro
T-Gro Easy-Flow
RhizoVital 42 / C5 / P4S

Monitoring systems, Mass trapping
Drosal Pro
DrosaLure
Rebell – Coloured sticky traps
aPhinity EAB
PheroNorm

Rodent control
topcat
topsnap
topsnap LR
standby

Macroorganisms
Beneficial insects
Insect feed
Insects for research
Entomopathogenic nematodes

Biocides
InsectoSec

About us
Structure of the Andermatt Biocontrol
Our suppliers
Subsidiaries of Andermatt Biocontrol
Your technical support
Our biocontrol technologies

At Andermatt Biocontrol Group, 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 Biocontrol in Switzerland. Ever since, our R&D 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 Biocontrol Group has evolved from pioneer, to global player, in the agricultural industry. With more than 10 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.

We also offer unformulated raw material.
Bio-Insecticides

MADEX

**Past**
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 NEW, Madex Plus**
The Madex line includes several products based on different CpGV isolates. They are an important measure to prevent selection of CpGV resistant codling moths. In orchards with resistant codling moth populations, these isolates are effective tools for successful fruit protection.

**PRODUCT FACTS**

<table>
<thead>
<tr>
<th>Against</th>
<th>Codling moth (<em>Cydia pomonella</em>)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredient</td>
<td><em>Cydia pomonella</em> granulovirus (CpGV)</td>
</tr>
<tr>
<td>Formulation type</td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td>Concentration</td>
<td>$3 \times 10^{13}$ OB/liter</td>
</tr>
<tr>
<td>Standard dosage</td>
<td>100 ml per ha</td>
</tr>
<tr>
<td>Crops</td>
<td>Apple, pear, walnut, quince and others</td>
</tr>
</tbody>
</table>

**MADEX**

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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.

**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 infection.

**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 resistant codling moth.

**PRODUCT FACTS**

<table>
<thead>
<tr>
<th>Against</th>
<th>Oriental fruit moth and codling moth (Grapholita molesta, Cydia pomonella)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
<td>Cydia pomonella granulovirus (CpGV)</td>
</tr>
<tr>
<td><strong>Formulation type</strong></td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>$3 \times 10^{13}$ OB/liter</td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
<td>100 ml per ha</td>
</tr>
<tr>
<td><strong>Crops</strong></td>
<td>Peach, nectarine, apple, pear, quince, apricot, almond, cherry, plum and walnut</td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Against</th>
<th>Summer fruit tortrix (Adoxophyes orana)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
<td>Adoxophyes orana granulovirus (AoGV)</td>
</tr>
<tr>
<td><strong>Formulation type</strong></td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>$5 \times 10^{13}$ OB/liter</td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
<td>100 ml per ha</td>
</tr>
<tr>
<td><strong>Crops</strong></td>
<td>Apple, pear, rose, plum, cherry, apricot, peach, currant, gooseberry and others</td>
</tr>
</tbody>
</table>
**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**

<table>
<thead>
<tr>
<th>Against</th>
<th>False codling moth (Thaumatotibia leucotreta, formerly: Cryptophlebia leucotreta)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredient</td>
<td>Cryptophlebia leucotreta granulovirus (CrleGV)</td>
</tr>
<tr>
<td>Formulation type</td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td>Concentration</td>
<td>$2 \times 10^{13}$ OB/liter</td>
</tr>
<tr>
<td>Standard dosage</td>
<td>200 ml per ha</td>
</tr>
<tr>
<td>Crops</td>
<td>Citrus, avocado, pomegranate, bean, cotton, grape, macadamia, ornamental, corn, pepper, stone fruit, tea and many others</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Against</th>
<th>Cotton bollworm (<em>Helicoverpa armigera</em>), corn earworm (<em>Helicoverpa zea</em>) and other <em>Helicoverpa</em> species</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredient</td>
<td>Helicoverpa armigera nucleopolyhedrovirus (HearNPV)</td>
</tr>
<tr>
<td>Formulation type</td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td>Concentration</td>
<td>$7.5 \times 10^{12}$ OB/liter</td>
</tr>
<tr>
<td>Standard dosage</td>
<td>50 – 200 ml per ha</td>
</tr>
<tr>
<td>Crops</td>
<td>Soybean, tomato, sweet pepper, sweet corn, cotton, bean, tobacco, lettuce, sunflower and many others</td>
</tr>
</tbody>
</table>
**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**

<table>
<thead>
<tr>
<th>Against</th>
<th><em>Spodoptera exigua</em> (Beet armyworm)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
<td><em>Spodoptera exigua nucleopolyhedrovirus (SeMNPV)</em></td>
</tr>
<tr>
<td><strong>Formulation type</strong></td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>$3.75 \times 10^{12}$ OB/liter</td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
<td>200 ml per ha</td>
</tr>
<tr>
<td><strong>Crops</strong></td>
<td>Sweet pepper, tomato, melon, strawberry, sugar beet, cotton, cabbage, lettuce, sweet corn, onion and many others</td>
</tr>
</tbody>
</table>

**TUTAVIR**

**Pest**
The tomato leafminer (*Tuta absoluta*) is a key pest in tomato production and shows resistance to several classes of pesticides. Introduced to Spain in 2006, it is now a major issue for European and African tomato producers and is rapidly spreading towards the Far East. Larvae mine into leaves and fruits where they create severe damage.

**Product**
Tutavir contains a *Phthorimaea operculella granulovirus* for highly effective and selective control of the tomato leafminer. It is well suited for population and damage control. Tutavir is the best 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**

<table>
<thead>
<tr>
<th>Against</th>
<th><em>Tomato leafminer (Tuta absoluta)</em></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
<td><em>Phthorimaea operculella granulovirus (PhopGV)</em></td>
</tr>
<tr>
<td><strong>Formulation type</strong></td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>$2 \times 10^{13}$ OB/liter</td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
<td>50 – 200 ml per ha</td>
</tr>
<tr>
<td><strong>Crops</strong></td>
<td>Tomatoes and other solanaceous crops</td>
</tr>
</tbody>
</table>

*OMRI Listed*
**LITTOVIR**

**Pest**
The Egyptian cotton leafworm (Spodoptera littoralis; bottom right) and the fall armyworm (Spodoptera frugiperda; bottom 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, 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**

<table>
<thead>
<tr>
<th>Against</th>
<th>Egyptian cotton leafworm (Spodoptera littoralis) and fall armyworm (Spodoptera frugiperda)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredient</td>
<td>Spodoptera littoralis nucleopolyhedrovirus (SpliNPV)</td>
</tr>
<tr>
<td>Formulation type</td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td>Concentration</td>
<td>5 × 10¹¹ OB/liter</td>
</tr>
<tr>
<td>Standard dosage</td>
<td>200 ml per ha</td>
</tr>
<tr>
<td>Crops</td>
<td>Corn, strawberry, lettuce, tomato, sweet pepper, cotton, cabbage, potato, melon, cocoa, rice, soybean, wheat and many others</td>
</tr>
</tbody>
</table>

**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**
Spadovir 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**

<table>
<thead>
<tr>
<th>Against</th>
<th>Fall armyworm (Spodoptera frugiperda)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active ingredient</td>
<td>Spodoptera frugiperda nucleopolyhedrovirus (SfMNPV)</td>
</tr>
<tr>
<td>Formulation type</td>
<td>Suspension concentrate (SC)</td>
</tr>
<tr>
<td>Concentration</td>
<td>6 × 10¹² OB/liter</td>
</tr>
<tr>
<td>Standard dosage</td>
<td>50 – 200 ml/ha</td>
</tr>
<tr>
<td>Crops</td>
<td>Corn, sorghum, rice, soybean and many others</td>
</tr>
</tbody>
</table>
**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 is feeding 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, once totally defoliated, 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**

<table>
<thead>
<tr>
<th>Against</th>
<th>Soybean looper (Chrysodeixis includens)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
<td>Chrysodeixis includens nucleopolyhedrovirus (ChinNPV)</td>
</tr>
<tr>
<td><strong>Formulation type</strong></td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>$5 \times 10^{11}$ OB/liter</td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
<td>50 – 200 ml per ha</td>
</tr>
<tr>
<td><strong>Crops</strong></td>
<td>Soybean, tomato and others</td>
</tr>
</tbody>
</table>

**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 T. ni larvae, by preventing damage and control T. 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**

<table>
<thead>
<tr>
<th>Against</th>
<th>Cabbage looper (Trichoplusia ni)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
<td>Autographa californica nucleopolyhedrovirus (AcMNPV)</td>
</tr>
<tr>
<td><strong>Formulation type</strong></td>
<td>Suspension concentrate</td>
</tr>
<tr>
<td><strong>Concentration</strong></td>
<td>$5 \times 10^{11}$ OB/liter</td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
<td>200 ml per ha</td>
</tr>
<tr>
<td><strong>Crops</strong></td>
<td>Typically on brassica crops e.g. cabbage, broccoli, collards, kale. Also present on: tomato, lettuce, pea, potato, etc.</td>
</tr>
</tbody>
</table>
Bio-Insecticides

Baculovirus products for forest pests

**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.

**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.

<table>
<thead>
<tr>
<th>PRODUCT FACTS</th>
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</thead>
<tbody>
<tr>
<td><strong>Against</strong></td>
</tr>
<tr>
<td><strong>Active ingredient</strong></td>
</tr>
<tr>
<td><strong>Application area</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>PRODUCT FACTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Against</strong></td>
</tr>
<tr>
<td><strong>Active ingredient</strong></td>
</tr>
<tr>
<td><strong>Application area</strong></td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>PRODUCT FACTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Active ingredient</strong></td>
</tr>
<tr>
<td><strong>Standard dosage</strong></td>
</tr>
<tr>
<td><strong>Area of application</strong></td>
</tr>
</tbody>
</table>
Bio-Insecticides

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, false codling moth, citrus red mite, and other insect pests.

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
Concentration
≥ 2 × 10⁹ spores/g
Standard dosage
300 – 1000 g/ha as a full cover spray or drench into soil
Crops
Wide range of crops

NOMU-PROTEC

Nomu-Protec contains the insect-pathogenic fungus Metarhizium rileyi¹ 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
Concentration
≥ 1 × 10⁹ spores/g
Standard dosage
300 – 600 g/ha as a full cover spray
Crops
Wide range of crops

¹ Previously known as Nomuraea rileyi
Bio-Fungicides

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.

Key benefits
Pathogen displacement and induction of systemic resistance

Active ingredient
Bacillus velezensis (synonym Bacillus amyloliquefaciens spp. plantarum) FZB42

Formulation type
Suspension concentrate

Concentration
> 2.5 × 10⁶ CFU/ml

Standard dosage
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.
Bio-Fungicides

T-77

T-77 contains the beneficial fungus Trichoderma atroviride strain 77B, a very effective aerial Trichoderma strain. The Trichoderma fungus colonizes 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 parasitize 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
Colonizes 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

Concentration
≥ 2 x 10^9 spores/g

Standard dosage
250 – 750 g/ha

Crops
Grape, tomato, onion, strawberry, nectarine, soybean, 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 deformas 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.

PRODUCT FACTS

Active ingredient
Calcium polysulphide (Lime sulphur)

Standard dosage
4 – 12 l/ha

Crops
Pome fruit, stone fruit, grape, 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. The 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.

PRODUCT FACTS

Active ingredient
Potassium bicarbonate

Standard dosage
5 – 10 kg/ha

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

Concentration
- ≥ 2 x 10⁹ spores/g

Standard dosage
- 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 × 10^9 spores/g

**Standard dosage**
- 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.

<table>
<thead>
<tr>
<th>RhizoVital 42</th>
<th>RhizoVital P45</th>
<th>RhizoVital C5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bacteria species</strong></td>
<td>Bacillus velezensis (synonym amyloliquefaciens spp. plantarum)</td>
<td>Bacillus atrophaeus</td>
</tr>
<tr>
<td><strong>Strain</strong></td>
<td>FZB42</td>
<td>FZB45</td>
</tr>
<tr>
<td><strong>Key properties</strong></td>
<td>Increased plant nutrient mobilisation</td>
<td>Increased phytase production favours P-mobilisation</td>
</tr>
<tr>
<td><strong>Temperature range for spore germination</strong></td>
<td>12 – 45 °C</td>
<td>8 – 42 °C</td>
</tr>
<tr>
<td><strong>Formulations</strong></td>
<td>SC (liquid suspension concentrate) 2.5 × 10^11 cfu/ml</td>
<td>TB (talcum based dry powder) 1 × 10^9 cfu/g</td>
</tr>
<tr>
<td><strong>Shelf life</strong></td>
<td>2 years, when stored &lt; 25 °C, dry and protected from sunlight</td>
<td></td>
</tr>
</tbody>
</table>

Compatibility
- 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.
Monitoring systems, Mass trapping

**DROSAL PRO**

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**

DrosaLure is a highly attractive and stabilised attractant for spotted-wing drosophila. It is composed of cider vinegar, red wine, sugar and natural flavours and can be used as a lure to the Drosal Pro cup trap or any other kind of liquid trap system.

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**ADVANTAGES OF DROSAL PRO**

- Very easy set-up
- Reusable
- Can be filled with the preferred lure (i.e. DrosaLure)
- No waiting periods, no residue issues

**ADVANTAGES OF DROSALURE**

- Specific attractant for *Drosophila suzukii*
- Natural ingredients
- Compatible with any kind of liquid trap
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 longest-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).

PHERONORM
Andermatt Biocontrol offers a large range of lures for monitoring of economically important pest species:

Acrolophus aspinus  Leaf moth
Adoxophyes orana  Summer fruit tortrix
Agrilus planipennis  Emerald ash borer
Agrilus planus  Black cutworm
Agrilus segetum  Tump moth
Anarsia lineatella  Peach tree borer
Anthonomus rubi  Strawberry blossom weevil
Astraptes flavipes  Sylph-Y moth
Bactroceridae  Olive fly
Byrnea tomentosa  Raspberry beetle
Cameraria ohridella  Chestnut leafminer
Ceratitis capitata  Medfly
Contarinia nautica  Sweede midge
Crassostrepsa  European goat moth
Cryptophlebia leucotreta  False codling moth
Cylidra nigricana  Pea moth
Cydia pomonella  Codling moth
Cydia splendana  Chestnut tortrix
Dacnusa glaucirhina  Honey locust pod gall midge
Dissectana virgata  Western corn rootworm
Diaphania peregrina  Box tree moth
Enaphalum formosana  Cherry bark tortrix
Ephestia arbicella  European grape berry moth
Grapholitha fusiguttata  Plum fruit moth
Grapholitha labruscana  Small fruit moths
Grapholitha molesta  Oriental fruit moth
Halyomorpha halys  Brown marmorated stink bug
Haliartus armigera  Cotton bollworm
Helicoverpa zea  Tobacco budworm
Leucoptera chloris  Pearl leaf blenter moth
Laspeyresia bamana  Grapevine moth
Lygus rugulipennis  European tarnished plant bug
Lymantria dispar  Gypsy moth
Mamestra brassicae  Cabbage moth
Ostrinia nubilalis  European corn borer

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

Pammene rhedella  Fruitlet mining tortrix
Pandemis heparana  Apple brown tortrix
Parnassius hyanaformis  Raspberry clearwing moth
Phthorimaea operculella  Potato tuber moth
Philaenus spinicollis  Indian meal moth
Plexilla xylorista  Diamond back moth
Pseudopollene japonica  Japanese beetle
Quadrupiana persicae  San Jose scale
Rasseliae therauldi  Raspberry cane midge
Rhagio subaeneus  Cherry maggot
Sypheus lullennis  Buet moth
Spinophaea pallidaria  Grape leaf roller
Spiloptera obscens  Eye-spotted bud moth
Spodoptera exigua  Buet armyworm
Spodoptera frugiperda  Fall armyworm
Spodoptera littoralis  Egyptian cotton leafworm
Synanthedon myopaeformis  Apple clearwing moth
Synanthedon tipuliformis  Current clearing moth
Tuta absoluta  Tomato leafminer
Zeuzera pyrina  Leaard moth

Lures for other pest species available on demand
Smart solutions for efficient rodent control

**topcat – The vole trap.**
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.**
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.**
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.

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**Advantages of the Topcat-trap**
- High quality product made of stainless steel
- Quick and easy handling
- Catches from both tunnel directions
- 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 against aphids and Phytoseiulus persimilis 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
- Summer fruit tortrix (Adoxophyes orana)
- Codling moth (Cydia pomonella)
- Oriental fruit moth (Grapholita molesta)
- Cotton bollworm (Helicoverpa armigera)
- Potato tuber moth (Phthorimaea operculella)
- Diamondback moth (Plutella xylostella)
- Beet armyworm (Spodoptera exigua)
- African cotton leafworm (Spodoptera littoralis)
- Tomato leafminer (Tuta absoluta)

PRODUCT FACTS
Andermatt Biocontrol Suisse has many years of experience in the production of beneficial insects.

PRODUCT FACTS
In the course of the production of baculovirus products, Andermatt Biocontrol Suisse 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 Biocontrol has been developing and marketing beneficial nematode products for over 20 years.
- Easy application with AquaNemix.

### Against larvae of:

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

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

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

InsectoSec is a dustable powder made from fossilized diatoms which controls effectively the red fowl mite and all kind of hygiene 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 dosage**
  - 30 – 50 g/m²
- **Application**
  - Biocide for poultry farmers and professional pest control
About us

Andermatt Biocontrol is certified according to ISO 9001:2015.
Andermatt Biocontrol is embedded in the family- and employee-owned Andermatt Holding and has shareholding in a number of subsidiary companies (outlined below), totalling in over 300 highly motivated employees worldwide.

Structure of the Andermatt Biocontrol

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
www.andermattbiocontrol.com

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

Our suppliers

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Biofa AG joined the Andermatt Biocontrol 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 biocontrol and bio-fertiliser products in Germany.

www.biofa-profi.de

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

Sylvar Technologies Inc. was established in 2006 and joined the Andermatt Biocontrol 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, Sylvar also acts as a distributor of biocontrol products in the Canadian forest and agricultural market.

www.sylvar.ca

Plant Health Products (PHP) was initiated in 1998 by Prof. Mark Laing and Dr. Mike Morris 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.plant-health.co.za

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www.sylvar.ca

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www.abitep.de
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