

Professionals



BIPLANTOL®

Homoeopathic plant strengthening

naturally healthy



Homoeopathy for horticulture,

The natural medicine of homoeopathy transferred to plants

Prompted by the debate on the forest dieback in the early 80s, Konrad Würthle, an experienced chemist and naturalist, searched for ways to heal diseased trees. For that he deliberately opted for the homoeopathy. A conventional fertiliser cannot achieve a healing success of diseased plants because its nutrients are too highly concentrated. During an illness we humans also prefer rather little to eat and especially wholesome food. Konrad Würthle eventually succeeded to regenerate diseased and damaged trees in a sustained manner by using a homoeopathic solution. He named this homoeopathic product BIPLANTOL® which provides all vital elements homoeopathically for regenerating plants. The success has proven him right. Through the years a broad product line of homoeopathic plant strengthening agents for hobby and professional users has been developed.

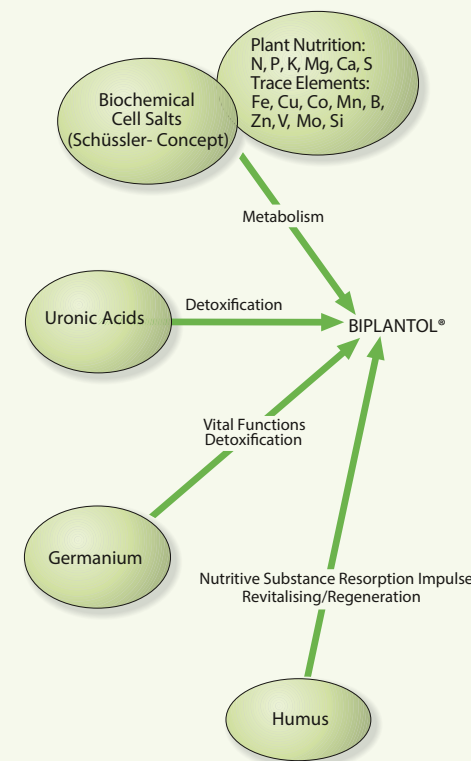
BIPLANTOL® promotes plant health and growth vigour

The motto underpinning BIPLANTOL® is not „a lot helps a lot“. But it gives the plant (organism) an impulse that **stabilises the system** or **regulates disorders**. Innumerable intricate processes take place as plants grow. Influences of various kinds can easily disrupt the orderly course of these processes. With our homoeopathic products we have found ways and means to focus on **promoting** the biological, **organisational processes**, to create a balance or to **stabilise** an existing **balance**.

Thus, BIPLANTOL® makes an active contribution to regenerate diseased and weakened plants and to keep healthy plants healthy.

Over the years or during a vegetation period an imbalance can be caused by external stress factors (e.g. unfavourable soil conditions, climate stress, fertilisation errors, chemical influences, etc.). The result of this is a reduced ability of the plant for resistance and regeneration. This instability may not always be visible instead shows when additional stress factors are added.

BIPLANTOL® supports plants to correct malfunctions or to promote vital functions such as defence responses against a disease.



Source materials and production

Our homoeopathic plant strengthening agents are produced according to the rules of the classic homoeopathy. This means that the source materials are diluted with either water or alcohol and shaken following a certain procedure. Natural minerals and trace elements are utilised including potassium, calcium, iron, magnesium; phosphorus, sulphur and essential trace elements including boron, manganese, molybdenum, cobalt, copper among others; silicon, uronic acids (plant mucilage), germanium, worm humus, herbal and plant extracts.

agriculture & urban communities

The basis

for the resulting BIPLANTOL® product line is a **combination of plant extracts, minerals and trace elements in a homoeopathic-dynamised form (D6-D100)**. BIPLANTOL® is a biochemical-physical complex; it is neither a pesticide nor a fertiliser in the classical sense but a subtle functional agent for the **control of biological life and exchange processes**.

The balanced composition of BIPLANTOL® has a regulating effect on the plants metabolism and supports the natural processes of life in the soil.

The components contained in BIPLANTOL® acquire a „potentised“ effect during the dynamisation into several homoeopathic dilutions. This phenomenon promotes the development of defence mechanisms in the plant.

Healthy soil, healthy plant

Soil microorganisms are an important component of soil life and plant health (interaction, communication between plants and mycorrhizae). The promotion of microorganisms in the rhizosphere (the area around plant roots) can contribute substantially to keeping plants healthy. In the soil, BIPLANTOL® affects the health of the plant indirectly by supporting soil organisms.

BIPLANTOL® Your advantage - use and effect

- supports plant health and vitality
- strengthens weakened plants
- helps to reinforce the plants ability to cope with stress situations and fungal diseases
- stimulates the plant's natural ability for regeneration
- stimulates vegetative growth
- promotes a healthy symbiosis between soil organisms and roots
- stimulates mycorrhizal fungi and microorganism
- reduces the default rate, more marketable plants
- enhances the plant's appeal
- increases flower formation and the ability to flower
- supports a better quality of fruit, vegetables and other crops
- promotes crop stability

Ecological contribution

- supports root growth and thus nutrient uptake
- benefits soil fertility and crumbly structure (clay-humus-complex)
- benefits natural living structures created by soil organisms
- no risks for the user and the ecosystem
- no risk of plant resistance development
- serves biodiversity
- facilitates reducing the use of pesticides and fertilisers
- is environmentally friendly and produced resource-saving
- is bee-friendly

Instructions for use

BIPLANTOL® is easily applied either by watering (stock solution), spraying or fogging and can be used in combination with commercially available strengthening agents, fertilisers and pesticides.

Experience has shown that common mineral fertilisers and other plant protection measures can be gradually reduced.

Responsible for nature and people.

Rolf Würthle - CEO -

Silver medal

In 1991, an expert panel awarded the silver medal to BIPLANTOL® at the International Inventors Fair in Geneva.



More vitality



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BIPLANTOL® agrar

Plant strengthening agent for general health maintenance and regeneration of ornamental plants, trees, shrubs, fruit and vegetables, grapevines, field crops.

Promotes strong root, leaf and flower formation.

Less fungi



page 8

BIPLANTOL® mykos V forte

Plant strengthening agent for health maintenance and preventive strengthening against fungal diseases of ornamental plants, trees, shrubs, fruit and vegetables, grapevines, field crops.

Healthy and vigorous plants are less susceptible to diseases.

Ideal complement to BIPLANTOL® agrar when alternately applied.

Fewer pests



page 10

BIPLANTOL® X2 forte

Plant strengthening agent for health maintenance and preventive strengthening against biting and sucking pest insects.

Vigorous plants are more hard-wearing and thus less susceptible to insect pests.

The Powerful 3

Robust turf



BIPLANTOL® sport

For sport fields and green areas. For health maintenance, regeneration and strengthening of lawns against grass diseases. Stimulates good root penetration and stable turf.

page 12

Green avenues



BIPLANTOL® aesculus

For health maintenance, regeneration and strengthening of chestnut trees. Strengthens tree vigour and reduces the stress by leaf-miner moths.

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Strong hops



BIPLANTOL® H forte NT

Strengthening agent for high-yielding and premium quality hops. Healthy and vigorous hop is less susceptible to diseases.

page 16

Refined compost and manure



BIPLANTOL® plus

For compost, dung and manure enhancement. Promotes faster and odourless composting.

For a pleasant smelling compost, a more plant tolerant manure and improved air in the shed or pen.

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BIPLANTOL® *agrar*

Plant strengthening universal

For general health maintenance, regeneration and strengthening of crops and trees for professional production. **For vigorous and root strong crops.**

Suitable for orcharding, cultivation of ornamental plants, vegetable growing, viticulture, agriculture (arable and pasture farming), forestry and nurseries.

Properties based on preventive and regular applications

- supports plant health and vigour
- strengthens weakened plants
- stimulates the plant's natural ability for regeneration
- supports root growth and thus nutrient uptake
- promotes a healthy symbiosis between soil organisms and roots
- supports soil quality and structure by stimulating soil microorganisms
- stimulates vegetative growth
- increases flower formation, the ability to flower and the plant's appeal
- supports a better quality of fruit, vegetables and other crops
- reduces the default rate, more marketable plants
- the product will not stain the leaves

The application supports the plants from within

BIPLANTOL® promotes the vitality of the plant and soil. Beneficial bacteria and fungi in the soil and on the plant are stimulated and balanced. Plants receiving homoeopathic treatment develop better because the plant's natural ability for regeneration is stimulated. Thereby nutrient uptake is improved and saves on fertilisers. A healthy and vigorous plant is more tolerant towards poor site conditions and climate stress. BIPLANTOL® is absorbed through the leaves, needles and roots.

Composition

Homoeopathic-dynamised complex agent containing in potentised form (D6-D100) the minerals potassium, calcium, iron, magnesium, phosphor; vital trace elements such as boron, germanium, silicon, copper; manganese and uronic acids (plant mucilage) among others.

Listed as a **plant strengthening agent** with the German Federal Office of Consumer Protection and Food Safety (BVL).

Approved for organic farming according to the EC Organic Regulation (EU) 2018/848 and listed in the FiBL catalogue of organic farm inputs.

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions. Bees, beneficial organisms and other insects are not affected.

Please note

In general, BIPLANTOL® can be applied together with other commercially available plant strengthening agents, pesticides and fertilisers.

Experience has shown that common mineral fertilisers and other plant protection measures can be gradually reduced with the use of BIPLANTOL® agrar.



Recommendation for use:

Spraying: 2 liters of BIPLANTOL® agrar per hectare (10,000 m²) in up to 1500 liters (396 gallons) of water. **Moisten plants and soil thoroughly.** Use 2 ml per 1 liter of spray liquid when using a backpack sprayer.

Watering: 0.2 ml per 1 liter of water.

Application period: depending on the crop, growing season and weather conditions, apply 3 - 6 times during the vegetation period from spring to autumn at regular intervals of 4 weeks. Best time for application is before growth spurts.

Application notes: Cold fogging is possible. For **permanent crops** BIPLANTOL® agrar and BIPLANTOL® mykos V forte can be applied together using each 1 - 2 liters per hectare (synergy effect).

Cultivation of ornamental plants and herbs

Easy application via the stock solution, tidal irrigation system, by watering or spraying.

To begin in an existing culture:

First-time application use 2 liters per hectare

New crop directly after potting:

apply 0.2 ml per 1 liter of irrigation water

Fast-growing crops regularly

- **weekly 0.5 liter per hectare** or 0.05 ml/m² BIPLANTOL® agrar.

Optimal when taking a weekly turn with BIPLANTOL® mykos V forte using the same application rate to prevent fungal infestation and where applicable, supplement

- weekly 0.5 liter per hectare or 0.05 ml/m² BIPLANTOL® X2 forte (aromatherapy).

Long-term crops

- regularly **monthly application** using every time **2 liters per hectares** (0.2 ml/m²)

- or 1 liter BIPLANTOL® agrar and 1 liter BIPLANTOL® mykos V forte per hectare (each 0.1 ml/m²)

and where applicable, supplement

- 2 liters per hectares (0.2 ml/m²) BIPLANTOL® X2 forte (aromatherapy).

Orcharding

Drupes

- 1 x flower spraying
- 1 x post-flower spraying
- 1 x half-fruit spraying

Pomes

- 1 x pre-flower spraying (leaves visible)
- 1 x post-flower spraying (May / June)
- 1 x half-fruit spraying

Berries (currants, raspberries, blackberries, gooseberries, blueberries)

- 1 x shoot spraying
- 1 x post-flower spraying
- 1 x half-fruit spraying

Strawberries

- 1 x 1st flower spraying
- 1 x 2nd flower spraying
- 1 x 3rd flower spraying

Viticulture

When first shoots appear apply regularly monthly 2 liters per hectare or per hectare each 1 liter of BIPLANTOL® agrar and BIPLANTOL® mykos V forte applied together.

Cultivation of vegetables & field crops

During the vegetation period apply 3 to 4 times 2 liters per hectare at 4-weekly intervals or for short cultivation times split application rates and apply every 7 - 14 days.

Grasslands

Meadows and pastures apply 3 - 4 x from spring to autumn at 6-weekly intervals.

Arable farming

3 - 4 x during the vegetation period 2 liters per hectare in 4 - weekly intervals.

Grain

- 1 x 3rd tiller stage
- 1 x 1st node stage
- 1 x ear emergence
- 1 x stubble field

Nurseries & forestry

Apply a total of 4 times at 4 - 6 weeks intervals starting when first shoot appears.

Dipping of seedlings and young plants

Add 1 liter of BIPLANTOL® agrar to 200 liters of water.

Seed treatment

Seeds for 1 hectare moisten by using up to 2 liters of BIPLANTOL® agrar and let absorb. Then redry or sow immediately.

Our recommendations are based on many years of experience and research. BIPLANTOL® is a plant strengthening agent and not a plant protection product. All information provided is to the best of our knowledge and does not establish a warranty or liability claim.

More vitality

BIPLANTOL® mykos V

- forte - Preventive plant strengthening
against fungal diseases



For general health maintenance and preventive strengthening of crops and trees against fungal diseases.

Suitable for orcharding, cultivation of ornamental plants, vegetable growing, viticulture, agriculture, forestry and nurseries.

Healthy and vigorous plants are less susceptible to fungal diseases.

Properties based on preventive and regular applications

- reinforces the plant's natural defences against fungal diseases
- supports plant health and vigour
- promotes reformation of roots and strengthens the rootstock
- promotes vegetative growth
- supports a better quality of fruit, vegetables and other crops
- reduces default rate and production loss
- improved storage of harvested crops

The application supports the plants from within

BIPLANTOL® supports plants from within and reinforces the plant's natural defences against fungal infestations. Plants stressed by disease, harmful environmental influences or by other circumstances can recover easier by receiving repeated applications because the plant's natural ability for regeneration is stimulated.

Plants receiving homoeopathic treatment are more robust and develop better. BIPLANTOL® is absorbed through the leaves, needles and roots.

Composition

Homoeopathic-dynamised complex agent containing in potentised form (D6-D100) extracts from herbs such as sage, basil, malva; silica, gemstones and minerals among others.

Listed as a **plant strengthening agent** with the German Federal Office of Consumer Protection and Food Safety (BVL).

Approved for organic farming according to the EC Organic Regulation (EU) 2018/848 and listed in the FiBL catalogue of organic farm inputs.

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions. Bees, beneficial organisms and other insects are not affected.

Please note

In general, BIPLANTOL® can be applied together with other commercially available plant strengthening agents, pesticides and fertilisers.

Experience has shown that common mineral fertilisers and other plant protection measures can be gradually reduced with the use of BIPLANTOL® mykos V forte.

Recommendation for use:

Spraying: 2 liters of BIPLANTOL® mykos V forte per hectare (10,000 m²) in up to 1500 liters (396 gallons) of water. **Moisten plants and soil thoroughly.** Use 2 ml per 1 liter of spray liquid when using a backpack sprayer.

Watering: 0.2 ml per 1 liter of water.

Application period: depending on the crop, growing season and weather conditions, apply 3 - 6 times during the vegetation period from spring to autumn at regular intervals of 4 weeks. Best time for application is before growth spurts.

Application notes: Cold fogging is possible. For **permanent crops** BIPLANTOL® mykos V forte and BIPLANTOL® agrar can be applied together using each 1 - 2 liters per hectare (synergy effect).

Cultivation of ornamental plants and herbs

Easy application via the stock solution, tidal irrigation system, by watering or spraying.

To begin in an existing culture:

First-time application use 2 liters per hectare

New crop directly after potting:
apply 0.2 ml per 1 liter of irrigation water

Fast-growing crops regularly

- **weekly 0.5 liter per hectare** or 0.05 ml/m² BIPLANTOL® mykos V forte.

Optimal when taking a weekly turn with BIPLANTOL® agrar using the same application rate for general health maintenance and where applicable, supplement

- weekly 0.5 liter per hectare or 0.05 ml/m² BIPLANTOL® X2 forte (aromatherapy).

Long-term crops

- regularly **monthly application** using every time **2 liters per hectares** (0.2 ml/m²)

- or 1 liter BIPLANTOL® mykos V forte and 1 liter BIPLANTOL® agrar per hectare (each 0.1 ml/m²)

and where applicable, supplement

- 2 liters per hectares (0.2 ml/m²) BIPLANTOL® X2 forte (aromatherapy).

Orcharding

Drupes

- 1 x flower spraying
- 1 x post-flower spraying
- 1 x half-fruit spraying

Pomes

- 1 x pre-flower spraying (leaves visible)
- 1 x post-flower spraying (May / June)
- 1 x half-fruit spraying

Berries (currants, raspberries, blackberries, gooseberries, blueberries)

- 1 x shoot spraying
- 1 x post-flower spraying
- 1 x half-fruit spraying

Strawberries

- 1 x 1st flower spraying
- 1 x 2nd flower spraying
- 1 x 3rd flower spraying

Viniculture

When first shoots appear apply regularly monthly 2 liters per hectare or per hectare each 1 liter of BIPLANTOL® mykos V forte and BIPLANTOL® agrar applied together.

Cultivation of vegetables & field crops

During the vegetation period apply 3 to 4 times 2 liters per hectare at 4-weekly intervals or for short cultivation times split application rates and apply every 7 - 14 days.

Grasslands

Meadows and pastures apply 3 - 4 x from spring to autumn at 6-weekly intervals.

Arable farming

3 - 4 x during the vegetation period 2 liters per hectare in 4 - weekly intervals.

Grain

- 1 x 3rd tiller stage
- 1 x 1st node stage
- 1 x ear emergence
- 1 x stubble field

Nurseries & forerstry

Apply a total of 4 times at 4 - 6 weeks intervals starting when first shoot appears.

Dipping of seedlings and young plants

Add 1 liter of BIPLANTOL® mykos V forte to 200 liters of water.

Our recommendations are based on many years of experience and research. BIPLANTOL® is a plant strengthening agent and not a plant protection product. All information provided is to the best of our knowledge and does not establish a warranty or liability claim.

Less fungi

BIPLANTOL® X2 forte

*The preventive plant strengthening
aromatherapy*

For general health maintenance, regeneration and preventive strengthening of ornamental plants, trees, shrubs, vegetables, fruit and berry bushes against biting and sucking insect pests.

Healthy plants are more robust and less susceptible to insect pests.

Properties based on preventive and regular applications

- supports plant health and vigour
- strengthens the plant against biting and sucking insects
- promotes regeneration of the plant when stressed by insect pests
- strengthens the plant tissue
- stimulates the plant's natural defences

Recommendation for use

Spraying: Regularly weekly for prevention, **spray the soil** thoroughly using a **0.35% BIPLANTOL® X2 forte** solution (i.e. mix 35 ml of BIPLANTOL® X2 forte in 10 liters of spray water at approx. 20°C).

Watering: weekly add **0.5 liter / hectare** to the **irrigation water** or **stock solution**.

Please note: Due to the large variety of crops it is recommended to test for compatibility first.

In general, can be applied together with other commercially available plant strengthening agents, pesticides and fertilisers.

Composition

Homoeopathic-dynamised complex agent containing in potentised form (D6-D100) the minerals potassium, calcium, iron, magnesium, phosphorus; vital trace elements such as boron, germanium, silicon, copper; manganese, uronic acids (plant mucilage) and ethereal oils among others.

Approved for organic farming according to the EC Organic Regulation (EU) 2018/848 and listed in the FiBL catalogue of organic farm inputs.

Listed as a **plant strengthening agent** with the German Federal Office of Consumer Protection and Food Safety (BVL).

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions. Bees, beneficial organisms and other insects are not affected.



Fewer insect pests

BIPLANTOL® *sport*

robust turf



For general health maintenance, regeneration and preventive strengthening of green areas against lawn diseases.

Suitable for sport fields, park areas, meadows, golf courses, public green areas.

Strong and healthy turf is less susceptible to diseases and stress.

Properties based on preventive and regular applications

- supports turf health and vigour
- strengthens weakened areas
- supports turf under adverse weather conditions
- reinforces the turf's natural ability to regenerate
- promotes root growth and thus nutrient uptake
- supports the activity of soil microorganisms
- supports the quick establishment of first sowing
- promotes shear strength and turf density

BIPLANTOL® supports the turf from within. Plants stressed by diseases or harmful environmental influences or by other circumstances can recover easier by receiving multiple applications because the turf's natural ability for regeneration is stimulated.

BIPLANTOL® reinforces the turf's natural defences against fungal diseases, site condition and climate stress. The microorganisms in the soil are supported and stimulated. Turf receiving homoeopathic treatment is more robust and grows better. BIPLANTOL® is absorbed through the leaves and roots.

Recommendation for use

Spraying: 2 liters of BIPLANTOL® sport per hectare in up to 1500 liters (396 gallons) of water, moisten the lawn thoroughly. Use 2 ml per 1 liter of spray solution when using a backpack sprayer.

Application period: during the vegetation from spring to autumn period **3 - 6 times at regular intervals of four weeks.**

In general, BIPLANTOL® can be applied together with other commercially available plant strengthening agents, pesticides and fertilisers.

With its use experience has shown that common mineral fertilisers and other plant protection measures can be gradually reduced.

Composition

Homoeopathic-dynamised complex agent containing in potentised form (D6-D100) the minerals potassium, calcium, iron, magnesium, phosphorus; vital trace elements such as boron, germanium, copper; manganese and uronic acids (plant mucilage) among others.

Listed as a **plant strengthening agent** with the German Federal Office of Consumer Protection and Food Safety (BVL).

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions. Bees, beneficial organisms and other insects are not affected.

Dense turf



BIPLANTOL® *aesculus*

for horse chestnuts

For general health maintenance, regeneration and strengthening of horse chestnuts.

Vigorous trees are more hard-wearing and thus less susceptible to diseases and stress.

Properties based on preventive and regular applications

- supports plant health and vigour
- strengthens weakened trees
- reinforces the plant's natural ability to regenerate
- promotes root growth and thus nutrient uptake
- stimulates vegetative growth

Trees stressed by disease or harmful environmental influences or by other circumstances can recover easier receiving multiple applications. The tree's natural ability for regeneration is stimulated. BIPLANTOL® is absorbed through the leaves and roots. BIPLANTOL® used preventively supports the plants from within. Trees receiving homeopathic treatment are more robust and grow better.

Recommendation for use

For small trees up to 5 m tall:

Application rate 20 ml of BIPLANTOL® per 10 liters of irrigation water

For large trees:

Application rate

[ml] = crown width [m] x crown height [m] x 6

Example: 5 m x 4 m x 6 = 120 ml of BIPLANTOL® aesculus

Amount of irrigation water

[liter] = crown width [m] x crown height [m] x 3

Example: 5 m x 4 m x 3 = 60 liters of irrigation water

Thoroughly mix BIPLANTOL® in water and water uniformly up until the branch endings of the tree crown (tree pit).

Application period: during the vegetation period from spring to autumn 3 - 6 times at regular intervals of 4 weeks.

Composition

Homeopathic-dynamised complex agent containing in potentised form (D6-D100) the minerals potassium, calcium, iron, magnesium, phosphorus; vital trace elements such as boron, germanium, copper; manganese and uronic acids (plant mucilage) and horse chestnut extracts among others.

Listed as a **plant strengthening agent** with the German Federal Office of Consumer Protection and Food Safety (BVL).

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions.



*Green avenues,
healthy trees*

BIPLANTOL® *H forte NT*

strong hops

For general health maintenance, regeneration and strengthening of hops.

Healthy and vigorous hop is less susceptible to disease, stress and unfavourable weather conditions.

Properties based on preventive and regular applications

- supports plant health and vigour
- increasing vitality
- strengthens weakened plants
- reinforces the plant's natural ability to regenerate (hail damage, climate stress)
- strengthens the rootstock, promotes root growth and thus nutrient uptake
- stimulates a healthy symbiosis between soil organisms and roots
- improves the soil structure by activation of soil microorganisms
- stimulates uniform growth
- supports flower formation and quality

BIPLANTOL® supports plants from within. Hop stressed by diseases, unfavourable environmental influences or by other circumstances can recover easier with multiple applications, because the plant's natural ability for regeneration is stimulated. **BIPLANTOL® strengthens the plant's natural defences against fungal infections**, site condition and climate stress.

In general, BIPLANTOL® H forte NT can be applied together with other commercially available plant strengthening agents, pesticides and fertilisers.

Recommendation for use

Application rate per spraying:

Thoroughly mix 2 liters of BIPLANTOL® H forte NT in up to 1500 liters (396 gallons) of water.

Suffices for 3000 to 4000 hop plants.

Apply by using a fan sprayer or as band spraying. Moisten plants and soil thoroughly.

BIPLANTOL® is absorbed through the leaves and roots.

Application period: during the vegetation period from spring to autumn **3 - 6 times at regular intervals of four weeks**. Best applied before growth spurts.

- 1. Spray at 10 cm plant height as band spraying**
- 2. Spray 4 weeks after the first application using a fan sprayer**
- 3. Spray 4 weeks after the second application using a fan sprayer**
- 4. Spraying at full umbel development**
 - Young or weak hop plants spray additionally 4 weeks before flowering
 - Water young hop plants within one week after sowing using BIPLANTOL® H forte NT

Composition

Homoeopathic-dynamised complex agent containing in potentised form (D6-D100) the minerals potassium, calcium, iron, magnesium, phosphorus; vital trace elements such as boron, germanium, silicon, copper; manganese and uronic acids (plant mucilage) among others.

Approved for organic farming according to the EC Organic Regulation (EU) 2018/848 and listed in the FiBL catalogue of organic farm inputs.

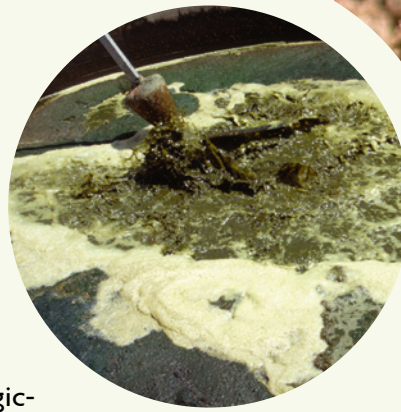
Listed as a **plant strengthening agent** with the German Federal Office of Consumer Protection and Food Safety (BVL).

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions. Bees, beneficial organisms and other insects are not affected. Can also be used in areas with special restrictions (water protection area, next to trenches and waterbodies)

Beautiful hops

BIPLANTOL® *plus*

for manure and compost



Biological fast converter for manure, compost and bark.

Effect

BIPLANTOL® plus serves to accelerate the homogenisation of cattle and pig manure. Dung, compost and bark rots faster.

Experience has shown:

- significant odour reduction of manure and in the shed, reduced ammonia loss
- improved manure liquefaction and homogenisation by faster decomposition of solids
- improved plant compatibility
- burns from the manure on plants or soil organisms (e.g. earthworms) are avoided
- visible enhanced plant and root growth
- treated manure improves fodder quality
- reduced work and cleaning effort in the shed/stable when applied on a regular basis
- economical in use and sustainable
- experimental results of the former LVVG Aulendorf show significantly improved flow of liquid manure
- improved soil structure and water holding capacity

Mode of functioning

BIPLANTOL® plus is a pure biologic-biochemical activation agent that supports the microorganisms in the manure, dung, compost or bark and promotes increased cell division. Both aerobic and anaerobic bacteria are activated to increased cell division whereby an improved homogenisation, odour reduction and nitrogen fixation is achieved.

The nutrients of the refined manure are more plant compatible. Less bacteria bound nitrogen is washed out of the soil.

Composition

Homoeopathic-dynamised complex agent containing in potentised form (D6-D100) the minerals potassium, calcium, iron, magnesium, phosphor and vital trace elements such as boron, germanium, copper; manganese and uronic acids (plant mucilage) among others.

Approved for organic farming according to the EC Organic Regulation (EU) 2018/848 and listed in the FiBL catalogue of organic farm inputs.

No side effects for humans, beneficial organisms and the ecosystem when appropriately applied according to manufacturers instructions. Bees, beneficial organisms and other insects are not affected.

Application and dosage:

There are three types of application methods for manure

Combination method:

- for untreated manure: add 1 liter of BIPLANTOL® plus per 10 m³ of manure in the pit and flushing trench.
- thereafter, add weekly 10 ml of per LSU* in 10 liters of lukewarm water and dispense in the gutter or flushing trench (canister screw cap equivalent to 25 ml for 2.5 LSU in 10 liters of water).

Field application can follow after 3 weeks of initial treatment.

If a residual amount of the activated manure remains in the pit after emptying the pit, a weekly application of BIPLANTOL® plus via the flushing trenches as described above suffices.

10 liters of BIPLANTOL® plus can refine up to 500 m³ of manure by using combination method.

Feeding method:

- for untreated manure: add 1 liter of BIPLANTOL® plus per 10 m³ of manure in the pit and flushing trench.
- thereafter, add daily 1.5 ml per LSU in the fodder or water trough.

This method has been proven successful over many years in Switzerland.

Direct method:

- add 1 liter of BIPLANTOL® plus per 10 m³ of manure in the pit and flushing trench.

Thus 10 liters of BIPLANTOL® plus suffice for up to 100 m³ of manure.

A waiting period of at least 3 weeks is recommended before field application.

new liquid manure pit

When taking a new manure pit into operation, empty first 3 to 4 barrels of liquid manure into the pit.

closed liquid manure pit Oxygen is necessary for the decomposition of manure! Without oxygen the manure starts to putrefy. Please assure that there is sufficient air intake into the pit (e.g. two opposing grates or several holes in the concrete roof).

For bedding

Application in the shed, pen, stable:

In the shed, pen or stable the application has proven successful when used on the bedding.

- After clearing away the dung spray the entire area using 5 ml of BIPLANTOL® plus in 1 liter of water on 10 m².
- spray the fresh dung layer 1 x per week using 20 ml of BIPLANTOL plus in 200 ml of water.

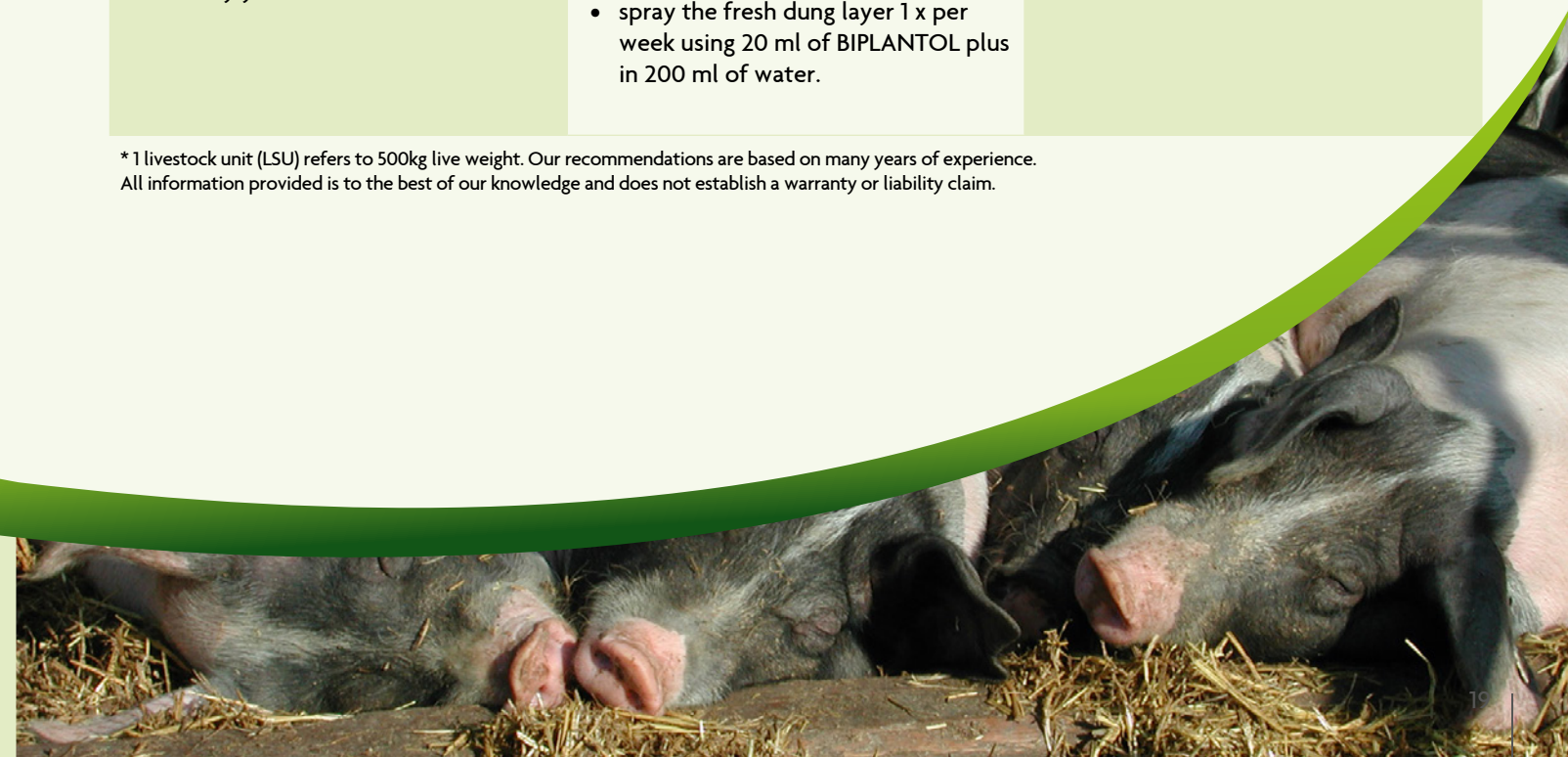
Dung, compost and bark composting

- water or spray 20 ml of BIPLANTOL® plus per 1 m³ uniformly.
- depending on the moisture of the material mix thoroughly in 5 liters of water
- build-up in layers: mix 50 ml of BIPLANTOL® plus in 10 liters of water and dispense uniformly over a 20 cm thick layer of dung, compost or bark layer per 10 - 15 m².

Up to 500 m³ can be treated using 10 liters of BIPLANTOL® plus.

* 1 livestock unit (LSU) refers to 500kg live weight. Our recommendations are based on many years of experience. All information provided is to the best of our knowledge and does not establish a warranty or liability claim.

*Good compost
and mild manure*



BIPLANTOL[®] *plus*

for manure and dung



Application farmyard manure

Application area	Operating site	Reference size	Dosage*	Application cylce	Comments
Dung	Dung heap	1 m³	20 ml		add to 5 liters and disperse
Dung	Dung heap	10 m² (25 cm thick-ness)	50 ml	per layer	8 LSUs produce approx. a 25 cm thick layer of dung per week on an area of 10 m² (approx. 2.5 m³)
Manure	Manure pit	10 m³	1 liter	once (only for initial treat-ment)	3 weeks to wait until field applica-tion. Thereafter, no waiting period is required.
Manure	Shed	1 GV	10 ml	1 x weekly	apply over the flushing trench, hall-way
Exercise pen (with slat-ted floor/ littler)	Shed	20 GV	200 ml	1 x weekly	apply over the slatted floor in the pen or add to the bedding.
Straw	Bay	1 bay	4 ml	1 x daily	mix in 2 liters of water: •thereof use 1 liter for bay cleaning •exchange the straw •disperse 1 liter over the straw (also provides hoof care)

*dilution for better distribution
e.g. mix 100 ml of BIPLANTOL[®] plus in 10 liters of water

Application via fodder / trough water - Experience gathered from users from Switzerland

Animal species	Number of animals	Dosage	Application cycle	Comments
Pig		50 ml		in 1000 liters of liquid fodder mix.
Pig		200 ml		in 1000 kg of dry fodder or 1.5 ml BIPLANTOL [®] plus per LSU and day
Hen		150 ml		in 1000 liters of trough water.
Hatchlings	5000 - 6000	5 liters	per fattening period (about 42 days)	apply over trough water
Pullets	5000 - 6000	15 liters	per upbringing period (about 18 weeks)	apply over trough water
Horse	1	5 ml	daily	in 50 liters of water and therein soak small hay bales
Cattle	1 LSU	1.5 ml	daily	spray non-diluted 2 ml from the spray bottle (approx. 3 strokes) per LSU
Cattle	20 LSU	30 ml	daily	in 10 liters of water and water with the watering can uniformly over the feeding trough or use non-diluted 2 ml from the spray bottle (approx. 3 strokes) per LSU Calculation: 1.5 ml of BIPLANTOL[®] plus per LSU and day

* 1 life stock unit (LSU) refers to 500kg weight.
app. LSU: horse 1 GV; Pony 0.5 GV; goat/sheep 0.1 GV

Better air inside the shed
and good manure



Being responsible for nature and people

Limitations on pesticide approvals and the continuing race against the development of resistance in pest species require a rethinking of traditional cultivation methods.

Preventive biological plant strengthening with BIPLANTOL® is a good basis for a secure, practical production in professional cultivation businesses.

BIPLANTOL® is an excellent means of providing crop stability not only for horticulture but also for agriculture and forestry. Moreover, it can also help to reduce production costs.

Preventive plant strengthening in addition to crop protection contributes substantially to both integrated production and to ensure the economic efficiency in horticultural crop production.

BIPLANTOL® products are plant strengthening agents that enhance the vitality of the plants.

More vigorous plants are less susceptible to fungal diseases, pest animal infestations and other stress factors. The symbiotic relationship between plants and soil organisms is encouraged to allow optimum development of the plants.

When using our plant strengthening products, the reduction of conventional pesticides and fertilizers and the associated cost savings are particularly interesting, as is the occupational safety aspect.

Vigorous plants are easier to market.

Continued research and further development of bespoke products for supporting plant growth and health are available.

The products comply with EC Organic Farming Regulations (EU) 2018/848 and are approved for organic production. The products are listed in the FiBL (Research Institute of Organic Agriculture) catalogue of organic farm inputs.



About us

Bioplant Naturverfahren GmbH was founded in 1984 in Constance by the chemist Konrad Würthle and is pioneer and leading manufacturer of homeopathic plant strengthening agents. The family business being run by the 2nd generation currently employs eight staff and looks back on more than 40 years of experience. Good results and an ever-growing customer base underline the quality of our work and research.



Our philosophy

The quality of our products and their sustainable added value for our users in horticulture, agriculture and in the communities is paramount in our corporate philosophy.

Reaching goals together

The direct contact and exchange to our users and partners is very important to us so that you as customer can achieve a better production and yield.

For that a qualified team with long-term knowledge and experience about our products and their multiple applications is at your disposal.

We are available for you for individual consultation on the phone, on trade fairs and at instructional courses

Research, cooperation

Further development also means to act. As a member of the national umbrella association of Biocontrol Manufacturers IBMA Global and IBMA Germany, as well as of the BioLago Lifescience Network Lake Constance, we are always up-to-date about our industry. The collaborations with universities or horticultural research institutions serves for additional synergies.

Our well-equipped laboratory, plant growth units and experimental field sites enable us to do research and also offers a respective scientific framework for students and interns.

Environmental protection and resource conservation

One of our principles is to actively contribute to environmental protection with respect to climate change.

This includes the climate-neutral shipping with DHL GoGreen, a modern wood pellet heating plant and a photovoltaic system which provides green electricity to meet our own needs as well as feeding into the grid.

Additionally, we avoid unnecessary packaging or wastes and place great emphasis on direct recycling including the particular the use of recycled materials.

„With pioneering spirits and passion into the future“

We see the authenticity and transparency through our personal proximity to our customers as the basis for our joint success and we live by our principles at all levels.

Together with you as a user we can contribute to an intact environment worth living in.

BIPLANTOL® stands for an effective and sustainable production, responsible for nature and people.



Healthy growth



BIPLANTOL®

vitalises, regenerates, promotes

- improved crop stability and quality
- reduced failure rate
- greater market success due to more plant appeal
- no risk of resistance developing
- no problems with residues
- no health risks for the user
- easy application by watering (stock solution), spraying or fogging
- affordable priced concentrates
- experience has shown that common mineral fertiliser and plant protection measures can be gradually reduced
- no added expenses because BIPLANTOL® can be applied together with commercially available strengthening agents, fertilisers and pesticides
- is bee-friendly

We will be happy to advise you

Development, manufacturing, sales

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