

Natural plant vitalizer for professionals

HB-101

Manual of use

- Makes the plant super-energetic
- Naturally harmless, safe and reliable
- The deciding factor for a pesticide-free crop.



Creating Tomorrow with Biotechnology
FLORA CO., LTD

Thank you for choosing HB-101.

HB-101 makes all plants grow healthy and enriches people and nature.

HB-101 is a 100% natural plant vitalizer that is effective for growing all types of plants. Since it is a safe and harmless natural plant vitalizer, it is ideal for pesticide-free cultivation and pesticide-reduced cultivation. HB-101 is a natural plant vitalizer that is safe to people, animals and the earth. No pesticides or fertilizers. We use HB-101, a natural plant vitalizing nutrient solution, for all plants such as vegetables, flowers, trees, lawns, wild herbs, orchids, roses, bonsai, mushrooms and hydroponic plants.

What is HB-101

HB-101 is a natural plant vitalizer that super energizes plants.



HB-101 is composed of 100% natural ingredients.

HB-101 is a natural plant vitalizer blended from extracts of trees (Japanese cedar, cypress, pine) and herbs (Plantain).

Japanese Cedar
Cypress Pine

The cedar, cypress, and pine trees have the nutrients to sustain their large bodies and the strength to remain invulnerable to outside forces. In addition, the oil extract helps to fight against harmful bacteria and foreign enemies.

Plantain

Plantain is known as a medicinal plant with anti-inflammatory and cough suppressant properties.

Composition of HB-101

Inorganic analysis	
Component	Analytical value
Sodium (Na)	41mg/L
Calcium (Ca)	33mg/L
Iron	1.8mg/L
Magnesium (Mg)	3.3mg/L
Silicon (Si)	7.4mg/L
Nitrogen (N)	97mg/L
Cadmium (Cd)	Undetected
Arsenic (As)	Undetected

General analysis	
Component	Analytical value
Crude protein	0.1%
Raw grease	0.4%
Crude fiber	0%
Crude ash	ø%(Very small quantity)
Carbohydrate	0%

Hydrogen ion concentration (ph)	
HB-101 undiluted solution	pH 3.5-4 (acidic)
HB-101 thousand times diluted solution	pH6.5 (weak acidity)

Effect of HB-101

The roots grow steadily and rapidly. The extraordinary effects of HB-101.

Revitalizes leaves, stems and roots!

HB-101 dissolves into the extracellular fluid of leaves, stems and roots in a balanced manner to revitalize cells. It creates lush leaves, strong stems and roots and promotes healthy growth.

Creates good soil!

Good soil is soil that contains the right amount of water and air and has a good balance of microorganisms. HB-101 helps the growth of effective microorganisms, and ensures a good balance of these microorganisms, to help create good soil.

Protects against external agents!

HB-101 activates the plant's own immunity. In addition, Phytoncide, a component of the plant essential oil contained in HB-101, has the function of protecting against external agents.

○ It can be used in the following cases.
Even wilted plants will be revived!

Even in the case of 80% and 90% dead plants, 10% and 20% of living plants will be completely revived with HB-101.

✗ It may not be used for such purposes.
It cannot kill parasites.

It can make it harder for pests to attack, but it cannot kill insects because it is not an insecticide.

This effect has been confirmed by several pesticide studies in different agricultural centers!

The effects of HB-101 on vegetables and flowers were tested during studies at agricultural centers in Chiba and Yamanashi prefectures. As a result, the plant viability effect of HB-101 is widely demonstrated.

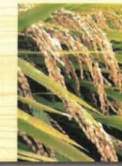
The roots of *Scabiosa caucasica* with HB-101 are spreading rapidly. The photo on the right are the results of the test conducted at the agricultural study center in Yamanashi.



Testimonials from customers who have used HB-101.

I can't wait to see the growth of the seedlings and rice.

I grow rice without using pesticides. Rice seeds are soaked in a solution diluted 1000 times with HB-101 for 7 days as well as spraying HB-101 three times on the seedbed. Thanks to the effect of HB-101, they grow strong and big. Immediately after planting the rice, I pour the liquid diluted 1000 times into the paddy field by installing a 4-liter bottle at the water inlet. The roots of the rice plant are very beautiful and I grow 600kg/500sq.m and there are no undersized rice grains. The rice paddies have become beautiful and I enjoy watching the growth of the rice seedlings every day.
(Kagoshima / Mr. Matsumoto)



Harvested tomatoes started growing again with HB-101.

I used to grow open-field tomatoes with HB-101, but in January of this year, I thought, "It's almost over," so I left it alone. When I went to the field in March, the leaves were ruined because of the cold wind. I gave them HB-101 right away, then in July they started flowering and fruiting and became very good tomatoes.



HB-101 brought back my passion for growing flowers!

I bought HB-101 without much confidence and when I gave it to the flowers in the garden, a miracle happened. I have been using HB-101 ever since. Even the annual flowers seem to have forgotten their durability, continuing to bloom the following year and even the year after, and are doing very well. I have also used it for potted flowers, helping to prolong their durability. Being surrounded by flowers everyday in my backyard makes me very happy.
(Hyogo/Mrs. Nakano)

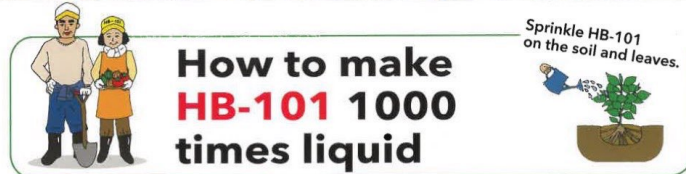


I grew 12 giant pumpkins hanging in the air using only HB-101.

It's been 7 years since I became my best friend with HB-101. I have struggled to prevent powdery mildew on pumpkins every year but this time I tried air growing using only HB-101. When HB-101 was watered at the root and sprayed on the leaves, disease did not appear and I was able to harvest 12 large pumpkins weighing about 2.5kg as shown in the photo.
(Kanagawa / Mr. Okada)



How to make HB-101 1000 times liquid


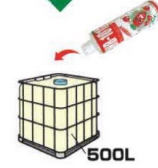


To use on plants, dilute **HB-101** in water at a ratio of 1/1,000 to 1/100,000 (1ml for 9.9sq.m approx, 10ml for 99sq.m approx, 100ml for 990sq.m approx), then sprinkle on the soil near the roots and on the leaves. For example, 100ml of HB-101 in 100L of water means the dilution ratio is 1/1,000.

When making with a sprayer

1. 
Measure 5ml of HB-101 into a measuring cup.
2. 
Pour 5ml of HB-101 into a 5-litre sprayer.
3. 
Pour 5 litres of water into the sprayer.

When making in a watertank

1. 
use 500ml of HB-101.
2. 
Pour 500ml of HB-101 into a 500L tank.
3. 
Pour 500L of water into the tank.

When making in a splinkler truck

1. 
use 2L of HB-101.
2. 
Pour 2L of HB-101 into a splinkler truck.
3. 
Pour 2000 Litre of water into the truck.

Overseas shipping country of HB-101

HB-101 is regularly used worldwide.



HB-101 is used by more than 80 million people worldwide. It is also recognised as an organically certified material in the USA, China, Taiwan and South Korea. Outside Japan, this product is mainly used for agriculture, but since there has been a boom in Japanese 'Bonsai' cultivation in Europe in recent years, the product is also used for other purposes. There are still many people who do not know about HB-101. Our task is to make people aware of what a fantastic, wonderful, exciting, happy and joyful experience the use of HB-101 can be. That is why we are participating in trade fairs abroad.

Overseas shipping country of HB-101		
*Australia	*Cyprus	*Lithuania
*Austria	*Egypt	*Malaysia
*Bangladesh	*Ethiopia	*Mexico
*Belgium	*France	*Mongolia
*Brazil	*Germany	*Myanmar
*Bulgaria	*Greece	*Nepal
*Cambodia	*Hong Kong	*Netherlands
*Canada	*Hungary	*Norway
*China	*India	*Oman
		*Pakistan
		*Philippines
		*Poland
		*Russia
		*Rwanda
		*Senegal
		*Singapore
		*Slovenia
		*South Korea
		*Spain
		*Sri Lanka
		*Sweden
		*Taiwan
		*Thailand
		*Trinidad and Tobago
		*Turkey
		*United Arab Emirates
		*United Kingdom
		*United States of America
		*Zambia
		*Zelanda New Zealand
		*Zimbabwe
		Alphabetical order



What is Granule HB-101 ...

Using it in conjunction with HB-101 is even more effective.

Granule HB-101 is created using HB-101 and comes in the form of granules.

While HB-101 is a liquid and is suitable for immediate use, Granule HB-101 acts more slowly; it should be mixed into the soil as it is being worked. It improves soil quality and increases beneficial bacteria in the soil. If it is not possible to mix it with the soil, it can be sprinkled over the soil. The product is most effective when used in conjunction with HB-101.



Let's start fertilizing the soil with Granule HB-101!!



Suitable for any plant such as rice, vegetables and flowers.

How to use

The ratios are: 130g per 69 sq.m. approx., 300g per 165 sq.m. approx., 1kg per 545 sq.m. approx. Apply the product to the soil near the base of the plants. 1ml of the product for a small pot, 1.5ml for a medium pot, 2ml for a large pot and 6ml for 3.3 sq.m approx.



Granule HB-101

The effect of the product lasts about 3 months just by mixing it with the soil.

There is a need to use small doses, so it lasts a long time and is cost-effective.

It avoids the problems associated with monoculture.

Q & A covers HB-101
Q If Granule HB-101 stays in the soil, will there be a problem?
A There are no problems. The product does not damage the roots.

The nutrients are released slowly from the product so its effect lasts a long time!
 Granule HB-101 is made up of zeolites. HB-101 is slowly diffused into the soil by the many small holes on the surface of the zeolites.

Testimonials from customers who have purchased Granule HB-101

I won the Prime Minister Award at the Chrysanthemum Fair! Granule HB-101 is so wonderful.

I purchased Granule HB-101 because the leaves of my chrysanthemums had become too yellow. At the base of the roots I inserted a teaspoon of the product. After 10 days the leaf color had improved greatly and the leaves were revitalized. Thanks to HB-101 and Granule HB-101, I won the Prime Minister's Award at the largest chrysanthemum fair in the Chugoku area. I thank Granule HB-101: it is a great vitalizer. (Mr. Monzen from Hiroshima)



I was able to produce many sweet and delicious strawberries. This is also thanks to HB-101.

I am using HB-101 and Granule HB-101 together. Although I had no luck with the weather this year, I was able to grow very sweet and delicious strawberries thanks to HB-101 and Granule HB-101 that I used in my strawberry planter. I also used the products on my azalea bonsai tree and the result was double the number of flowers, plus the flowers had a beautiful color. The products work really well. (Ms. Murakami from Yamagata)



I have been using HB-101 for 10 years. Now I use it together with Granule HB-101.

I am using both HB-101 and Granule HB-101. I use them for all the vegetables I grow because they work so well. The plants grow fast, shiny and colorful, plus they grow in good quantities. I hardly ever use pesticides, the sprouts are healthy and bloom one after another, so I can have a harvest every day. It's really thanks to HB-101. (Mr. Nagashima from Kagoshima)



Thanks to the product, I have harvested great turnips. When I gave a turnip to a friend as a gift she was thrilled.

I used to use HB-101 and Granule HB-101 for my flower pots, but on the advice of my florist I started using them for my vegetable garden as well. Result: I was able to harvest a large 4.6kg turnip last year then a 5.7kg turnip this year. Even after the season is over these turnips keep very well. I gave a turnip as a gift to some friends and they were thrilled. I would like to try growing them again with HB-101 and Granule HB-101. (Ms. Imamura from Osaka)



Standard use of HB-101

Rice Cereals

Land preparation

Use 100ml of HB-101 per 990m² diluted with water and irrigate the soil. Liquid diluted 1,000 to 100,000 times. 1-3 times after the previous harvest and before transplanting.



Seeds

Soak the seeds for at least 24 hours in the 1,000 times liquid dilute.



Seedbed

Spray 1000 times liquid dilute once a week.



Rice field

Spray the leaves with the 1,000 times liquid dilute at 100t per 990m². Ideally spray 5 times. (If there are difficulties spraying on the paddy fields, put 20-100ml of HB-101 per 990m² at the inlet of the field water diluting it with water.) Or, irrigation. In this case, we recommend placing it at least five times in the paddy field. It can also be used with a helicopter.



Lily, tulip, potato, taro, white radish, sweet potato, carrot, burdock etc. Bulbs, Root vegetables

Land preparation

Use 100ml of HB-101 per 990m² diluted with water and irrigate the soil. Liquid diluted 1,000 to 100,000 times. 1-3 times after the previous harvest and before transplanting.



From transplant to harvest

Immerse the bulbs and seeds in the 1,000 times liquid dilute for 1-30 minutes.



Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and irrigate the soil using an irrigation tube. Liquid diluted 1,000 to 100,000 times. 1 time per 3 days - 2 weeks Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and spray onto the leaves. Liquid diluted 1,000 to 10,000 times. 1 time per 3 days - 2 weeks



Green soybeans, green beans, broad beans, peas, soybeans, black beans, red beans, etc. Beans

Land preparation

Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and irrigate the soil. Liquid diluted 1,000 to 100,000 times. 1-3 times after the previous harvest and before transplanting.



Seeds

Immerse the seeds in the 1,000 times liquid dilute for 10 seconds.



Seedling

At the time of seedlings, spray 1000 times liquid dilute once a week.



From transplant to harvest

Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and irrigate the soil using an irrigation hose. Liquid diluted 1,000 to 100,000 times. (1 time for every 3 days - 2 weeks). Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and spray it on the leaves. Liquid diluted 1,000 to 100,000 times. (1 time for every 3 days - 2 weeks).



Cabbage, Japanese mustard spinach, spinach, Chinese cabbage, lettuce, etc. Leafy vegetables

Land preparation

Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and irrigate the soil. Liquid diluted 1,000 to 100,000 times. 1-3 times after the previous harvest and before transplanting.



Seeds

Soak the seeds in the 1,000 times liquid dilute for 3 hours.



Seedling

At the time of seedlings, spray 1000 times liquid dilute once a week.



From transplant to harvest

Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and irrigate the soil using an irrigation hose. Liquid diluted 1,000 to 100,000 times. (1 time for every 3 days - 2 weeks). Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and spray it on the leaves. Liquid diluted 1,000 to 100,000 times. (1 time for every 3 days - 2 weeks).



Pine, Azalea Trees, Bonsai

Use 1ml of HB-101 per 9.9m² by diluting it with water, water the soil and spray it on the leaves. (Liquid diluted 1,000 to 10,000 times. Throughout the year Spring, Summer, Fall and Winter. Once every 1 to 10 days. Standard is once a week.)



Hydroponic Stone wool cultivation

Place HB-101 in water so that it is diluted 100,000 times. (1/week) Use 100ml of HB-101 per 990m² (10ml per 99 m²) diluted with water and spray it on the leaves. (Liquid diluted 1,000 to 10,000 times. Standard is once a week to twice a month).



Tea Tree

Use 100ml of HB-101 per 990m² by diluting it with water, water the soil and spray it on the leaves. Liquid diluted 1,000 to 100,000 times. 1 month between October - January, 2/month between February - September



※ Whether irrigating or spraying, always use 100ml of HB-101 per 990m² (10ml per 99m²).

Diluted solution per 990m² (Example)

Water 100ℓ + HB-101 100ml → 1,000 times diluted

Water 500ℓ + HB-101 100ml → 5,000 times diluted

Water 300ℓ + HB-101 100ml → 3,000 times diluted

Water 1000ℓ + HB-101 100ml → 10,000 times diluted

Let's start with preparing the ground!

Irrigate the soil using HB-101 diluted 1,000-10,000 times with water 1-3 times after the previous harvest and before transplanting.

If the area is small, water the soil and leaves with a watering can or sprayer a mixture of HB-101 1-2 drops per gallon



Chrysanthemum, carnation, bellflower, etc. Flowers

Land preparation

Use 100ml of HB-101 per 990m² (10ml per 99m²) diluting it with water and irrigating the soil. Liquid diluted 1,000 to 100,000 times. 1-3 times after the previous harvest and before transplanting.



Seeds

Soak seeds in the 1,000 times liquid dilute for 12 hours.



Seedling

Spray the 1,000 times liquid dilute 1 time per section.



From transplant to harvest

Use 100ml of HB-101 per 990m² (10ml per 99m²) diluting it with water and irrigating the soil using an irrigation hose. (1/week) Use 100ml of HB-101 per 990m² (10ml per 99m²) diluted with water and spray it on the leaves. (1/week - 2/month)



Cedar, cypress, pine, birch, maple, oak, Japanese azalea Trees

Irrigate with the 1,000 to 100,000 times diluted liquid. Spray the leaves with the 1,000 to 10,000 times diluted liquid. (Every 1-30 days. Standard is once every two weeks).



Vine, cherry, pear, apple, chuck, kiwi, persimmon, plum, peach, etc. Fruits

After harvesting, use 100ml of HB-101 per 990m² (10ml per 99m²) by diluting it with water and irrigating the soil for 6 months. (Liquid diluted 1,000 to 100,000 times per 2/month). As above, use 100ml per 990m² diluting it with water and spray it on the leaves. (Liquid diluted 1,000 to 10,000 times per 2 /month).



Cultivation of Big Chrysanthemum

Use 1ml of HB-101 per 9.9m² by diluting it with water, water the soil and spray it on the leaves. (Liquid diluted 1,000 to 10,000 times. From the beginning 1/week).



Oriental orchids, green plants, various orchids, roses, camellia, alpine plants, cyclamen, bamboo, Japanese sacred lily, snowdrop, mountain grass etc. Potted plant

Use HB-101 diluted 5,000-10,000 times, water it over the soil and spray it on the leaves. (Throughout the year Spring, Summer, Fall and Winter. 1 time for every 1-10 days. Standard is once a week).



Meadow

Use 100ml of HB-101 per 1,000m² (10ml per 100m²) by diluting it with water, irrigate the soil and spray it on the leaves. (Liquid diluted 1,000 to 100,000 times. During winter 1-2/month, 3-4 /month in spring, summer and fall).



Mushrooms

Fungal bed cultivation

Inject HB-101 diluted 3,000-5,000 times into the bed. From the humidifier, spray HB-101 diluting it 10,000-50,000 times.

Cultivation trees for wood

Immerse shafts in a liquid solution of HB-101 diluted 5,000 times for 1-10 hours. After that, spray HB-101 diluted 5,000-10,000 times 1 time every 1-3 weeks.



Tomatoes, cherry tomatoes, strawberries, cucumbers, peppers, watermelons, eggplant, melons etc. Fruit vegetable

Land preparation

Use 100ml of HB-101 per 990m² (10ml per 99m²) diluting it with water and irrigating the soil. Liquid diluted 1,000 to 100,000 times. 1-3 times after the previous harvest and before transplanting.



Seeds

Soak the seeds in the diluted liquid 1,000 times for 12 hours.



From transplant to harvest

Use 100ml of HB-101 per 990m² (10ml per 99m²) diluting it with water and irrigating the soil using an irrigation hose. (Liquid diluted 1,000 to 100,000 times. 1/week) Use 100ml of HB-101 per 990m² (10ml per 99m²) diluted with water and spray it on the leaves. (Diluted 1,000-10,000 times. 1/week - 2/month).



Seedlings

When seedlings are still small, spray the 1,000 times liquid dilute 1 time per section. Dip the roots of the seedlings into the 3,000 times liquid dilute for 5 seconds.



Other way to use it on trees

Drill a hole using a drill at an angle of about 45° to the center of the log and pour HB-101 diluted 50 times into the hole. Trees are reborn.



- It is also effective to soak seeds, roots and cuttings in the liquid diluted 1,000 times.
- HB-101 is best mixed with water but can be mixed with fertilizer and other chemicals.
- Please avoid mixing with oils and alkaline materials.

Q & A

Q The color and fragrance of HB-101 are sometimes different, why?

A. Because HB-101 is 100% natural.

Since it is made only from the extract of natural plants, the color and scent may differ depending on the product, as well as there are individual differences even if the natural ones are of the same type.

The effect and performance are consistent.

Q How many days can HB-101 be stored diluted?

A. We recommend using it as soon as possible within a maximum of one month.

The undiluted HB-101 solution can be stored in perpetuity if stored in a cool, dark place with the cap tightly closed. In the diluted solution, algae may grow or become cloudy in about a month.

Even then the effectiveness of HB-101 will not change, so you can use it by filtering it with a filter or something similar.

Q Can I spray HB-101 every day?

A. Sure, there will be no problem spraying it every day.

Basically, we recommend spraying on leaves and soil once a week.

Natural plant
vitalizer that
makes the plant
super-energetic



1 L



500ml



100ml

Creating Tomorrow with Biotechnology

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