



Pesticide-free, Organic Farming

SOIL improvement by **Vitalization of Soil Microorganism**



Oriental Wave Building 4F , 5-17-13 , Shinjuku ,
Shinjuku ku , Tokyo , 160-022 , Japan
Phone +81-3-5287-5722 Fax +81-3-5287-5723

314,Nakamukae,Ukinoaza,Chiaki-cho,Ichinopmiya City,
Aichi, 491-0806 Japan
Phone +81-586-77-4248 Fax +81-586-77-6001
<http://www.cdi.jpn.com>

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About Soy Bean Peptide



What is "Soy Bean Peptide"?

The soybean peptide is a material consisting of several amino acids that are connected, made by protein of soy bean that is resolved and made into low molecules. It has properties that are in between protein and amino acid. The soybean has been used as an excellent organic fertilizer for a long time, and at the same time has been thought to be an effective nutrient for soil microorganisms. That is, it has been thought to be effective as a soil conditioner by activation of soil microorganisms. Soybeans are resolved into soil microorganisms, and it takes time until the plant can be absorbed. However, the absorption of plant roots is improved by making it to a low molecule by using microorganisms. The nourishment of soybeans activates the microorganisms in the sphere of the root by the endophyte effect, the peptide components are absorbed more promptly than the root, and the rhizogenesis as well as growth are enhanced. A lot of microorganisms live and are bred in soil, and by going into plant roots, the soil becomes more vitalized and able to reject sickness and harmful insects. As a result, the plant keeps rejecting various illnesses and harmful insects, grows vigorously, and become beautiful vegetables, flowers and fruit.

Features

1. The growth rate of the plant increases, the berry is enlarged, and the number of berries increases
2. Increases nutritional absorption power of the root by root hair proliferation.
3. No need to worry about soil depletion due to chemical fertilizer nor the disturbance of hormones.
4. Vitalization of soil microorganism

Fields for usage

Vegetables, flowers, fruit



About photosynthetic bacteria



What is "photosynthetic bacteria"

It is bacilli that grow with solar energy, and is a type of soil water fungus that mainly resides in water. It is widely distributed on the earth and lives in rice fields, ditches, rivers, lakes, marshes, the coast, activated sludge, and inside soil. It has various functions depending on the environmental condition (carbon fixation, discharge of carbon dioxide, nitrogen fixation, denitrification, oxidation of sulphides etc.), and plays a major role in the circulation of carbon, nitrogen, and sulfur within nature. The true values of using the physiological and ecological functions of photosynthesis bacteria are becoming recognized in many fields (agriculture, livestock, seafood processing, industrial waste management etc.) for wastewater disposal and fungus body usage.

Presently, bacteria cultured in this laboratory separate from the soil on the surface of the rice fields and haven undergone passage proliferation. It is a bacterial strain called purple non-sulphur bacteria of the photosynthesis bacteria, and is anaerobic bacteria. However, it proliferates even if it is concealed or in dark conditions, and has characteristics of corresponding to a wide range of environmental conditions. As for deodorization and sewage purification, it is mainly metabolites caused in the degradative process of organic matter such as ammonia, hydrogen sulfides, and short-chain fatty acids.

Features

1. The photosynthesis bacteria are not toxic, there are no side effects, and is safe.
2. The many functions of photosynthesis bacteria
 - Reduction of poisonous substances such as ammonia, hydrogen sulfides, and various organic acids.
 - Abundantly contains useful material such as carotene, vitamins B12, and ALA (aminolaevulinic acid) as fungus body products.
 - There are effects of stimulating the proliferation of actinomycetes and protozoan. There are also substantial lateral effects such as antiseptic effects and mold prevention.
3. It can be used at a low price with practicable private cultivation methods.
4. Synergy effects with useful bacteria such as actinomycetes and bacilli.

Fields for usage

- Rice fields (water field rice, rush grass, and lotus roots)
 - Alley vegetables (spinach, komatsusai, cabbage, potatoes, radish, pumpkin, and tobacco etc.)
 - Greenhouse cultivation (strawberry, tomato, cucumber, melon, green pepper, eggplant, and herbs etc.)
 - Floriculture (carnations, roses, and chrysanthemums etc.)
 - Fruit tree (mandarin oranges, date plums, apples, grapes, and mangos etc.)
 - Stock raising (dairy farming, cattle, hog raising, layer chicken, broiler, and poultry farming etc.)
 - Seafood (eel, mass, rockfish, carp, goldfish, aquarium fish, and soft-shelled turtle etc.)
 - Industrial waste (compost manufacturing, organic fertilizer manufacturing, rendering factories, and food processing factories etc.)
- Others: Tea, golf lawn, home septic tanks, temporary toilets, garbage disposal, reservoirs, and bonsai



About Effective Soil Bacillus



What is Effective Soil Bacillus?

Various types of bacteria live in the soil. With an original method, soil bacteria that have superior features are abstracted from the bacteria living in the soil, several types are selected, and combined. It is in a hibernation state called a spore, and by using it in soil, the bacteria become active. These bacteria interact with one another, and play an important role in the growth of plants. They settle and proliferate in plant roots while resolving and absorbing nourishment in the soil. The nutrient of the plant is generated in the process of this resolution and absorption, and it supplies it to plant roots. The plant increases vitality by absorbing the sufficient nutrition and becomes energetic.

Moreover, diatom earth is used for the raw material, which contains an abundance of minerals. There are countless minute holes from the surface to the inside, and the number is said to be several thousand times that of charcoal. The diatom earth is crushed and the surface area is increased rapidly.

Features

1. It generates "Soil that lives," which corresponds to various land and strong against injury by continuous cropping. Immunity to the pests improves because the aggregate structure is promoted and the plant grows healthily.
2. By absorbing sufficient nutrition, an increase in the number of nutrients in various articles, improvement of taste and an increase in growth promotion production are confirmed.
3. Because it is 100% natural soil conditioner that contains no chemicals at all, it is also ideal for organic farming.

Fields for usage

There are no specific articles that cannot be used.

There are numerous examples of success, such as tomatoes, cucumbers, spring onions, soybeans, radish, taro, Chinese cabbage, carrots, corn, potatoes, rice, green peppers, pea sprouts, leek, zucchini, yam, cayenne, strawberry, melon, watermelon, grape, mandarin orange, turf, and herbs.

