

Instructions for use

Product name: BIOFIL[®] Soya DUPLO

The purpose of using the preparation:

In soybean culture, to stimulate nodule formation, in a quantity of 0.5-1.0 l/ha, with a water quantity of 50-400 l/ha depending on the application device (with 15-30 l/ha water in the case of seeding furrow), during soil preparation or at the latest with sowing in one pass sprayed on the ground and then rolled in at the sowing depth.

The BIOFIL[®] Soybean DUPLO bacteria preparation can also be used in combination with either the BIOFIL[®] soil-pH specific (acidic, normal, alkaline) or the BIOFIL[®] Climate liquid soil-inoculating bacteria preparation. The recommended dose for the two members of the combination is a total of 1.5 l/ha, within the combination the dose of the BIOFIL[®] Soya DUPLO bacterial preparation is 0.5-1.0 liters. The products in the combination must be mixed before application. Application with a quantity of 50-400 l/ha of water depending on the application device (15-30 l/ha of water in the case of application in the seed furrow), sprayed on the soil during soil preparation or at the latest in one pass with sowing, then rolled in at the sowing depth.

Seed inoculation:

3 liters of BIOFIL[®] Soya DUPLO bacteria preparation and 1 liter of BIOFIL[®] Extra additive must be mixed together and applied evenly to 1 ton of seed in one pass. The treated seed can only be used in a dry state.

It cannot be mixed with bactericidal and fungicidal preparations!

Composition:

Bradyrhizobium sp., *Ensifer* sp. bacterium strains, water, nutrient medium.

Storage:

Store in the original sealed packaging, in a covered, frost-free, dry place. It is recommended to avoid sudden and large temperature fluctuations during storage.

Shelf life: in original, unopened packaging:

at a temperature between 0-5°C for 6 months, (below 0°C the product may be damaged)

at a temperature between 5-10°C for 4 months,

at a temperature between 10-20°C for 1 month,

At a temperature between 20-25°C for 2 weeks.

BIOFIL[®] soil inoculants cannot be mixed with the following substances: acids, alkalis, cleaning and disinfecting agents, and bactericidal compounds.

Handling:

The product has no known health or environmental harm, is non-flammable and explosive!

The product is non-toxic and has no harmful effects on plants and animals.

There was no GMO intervention during the production of the preparation, the auxiliary materials used for production do not contain GMO ingredients, the product can also be used in organic farming. Compliance with standard hygiene procedures is mandatory.

Occupational health waiting period: 0 days.

When working with the product, the applicable occupational health regulations must be taken into account. Avoid contact with eyes, mouth and damaged skin. After work, hand washing, showering and changing of clothes are required.

Work clothes and protective equipment must be washed with a disinfectant solution after use. In case of infection or allergic disease or if it is suspected, the work must be interrupted immediately.

Application:

1. The preparation serves to deliver the nodule-forming and nitrogen-fixing bacteria of the soybean symbiont into the soil and directly into the root zone. The bacterial strain is host plant specific and is not effective in other plant cultures.
2. It is recommended to use the product in combination with BIOFIL[®] Soil-specific (Acid, Normal, Alkaline) or BIOFIL[®] Climate inoculant.
3. The preparation cannot be applied without dilution. If we want to apply it together with other preparations, it may be recommended to perform a mixing test before mixing.
4. Based on the practical experience of recent years, we recommend applying 0.7 – 0.75 l/ha of BIOFIL[®] Soil-specific (Acid, Normal, Alkaline) soil inoculation preparation and 0.7 – 0.75 l/ha of BIOFIL[®] Soya DUPLO soil inoculation preparation for arable land (total 1.5 liters / ha). The increased BIOFIL[®] Soya DUPLO dose produces better crop results. It is recommended to apply the BIOFIL[®] Soil-specific / Climate and BIOFIL[®] Soya DUPLO soil inoculants even if the soybean seed is inoculated with a special nodule-forming bacterium. According to experience, compared to the use of seed inoculated only with rhizobium (control area), the BIOFIL[®] Soya DUPLO soil inoculation (the seed is also inoculated here) produces up to 20-60% more yield.
5. Dilution of the product (preparation of tank mix) should be done with 50-400 l/ha of water, depending on the application device and the condition of the soil (in case of high water content of the soil, less - in case of dry soil, we recommend a higher dilution ratio). The products can also be used with tap water (chlorinated).
6. The order of mixing the BIOFIL[®] Soil-specific/Climate inoculant and the BIOFIL[®] Soya soil-inoculating bacteria preparation into the tank mix is not specified, and does not affect the effectiveness of the preparations.
7. The product must be shaken well before mixing with water (before use).
8. The spreading device can be any machine suitable for field spraying. It should be emphasized that, if possible, choose a scattering height close to the ground surface and avoid drifting and very intense UV radiation. If possible, use a device whose tank is suitable for continuous mixing, in order to ensure a uniform spraying pattern. The treatment is carried out at a soil temperature above + 0°C. The container must be washed before use, because the remaining plant protection agents and other bactericidal residues impair the effectiveness of the product.
9. Do not mix the product with bactericidal and fungicidal products, as most of these products may reduce the effectiveness of the product!
10. After preparing the material mixed in the spray tank (tank), it must be applied to the ground on the same day or, if possible, within 24 hours of mixing!
11. Basically, the product is applied by spraying it on the soil surface and immediately turning it in. The application can take place during the preparation of the seed bed (1-2 weeks before sowing) or during sowing, in one go with the given operation. Make sure that after application, the product is immediately turned into the soil, at least to the depth of sowing. The effectiveness of the preparation remaining on the surface of the soil can be impaired by drying out and UV radiation. Apply the preparations in soil conditions suitable for tillage.

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