

# simbiyotek®



## Sim Bacil, Product composition

Water soluble Zn 3 %

*Bacillus subtilis*, at least 10<sup>8</sup> CFU/g

Organic matter 10%

Aminoacids: aspartic acid, glutamic acid, asparagine, serine, histidine, glycine, threonine, citruline, arginine, alanine, tyrosine, cystine, valine, methionine, tryptophan, phenylalanine, isoleucin, leucin, lysin, proline

Protease 200 U/g

pH 3 – 5

## General information

Sim Bacil is a liquid plant strenghtener containing water soluble Zn and live spores of *Bacillus subtilis* KUEN 1593. *Bacillus subtilis* KUEN 1593 is a natural isolate stored in the Culture Collection Center of the Istanbul University (KUKENS). Sim Bacil is certified as NON-GMO.

Sim Bacil is used for plants planted in zinc deficient soil. With the synergistic effect of the beneficial bacterium, *Bacillus subtilis* KUEN 1593, the foliar zinc intake is increased. The plants grow without the symptoms of zinc deficiency and the yield is increased.

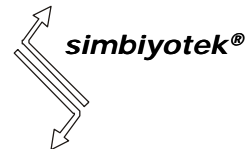
*Bacillus subtilis* KUEN 1593 in Sim Bacil is a natural enzyme producer. The protease produced by *Bacillus subtilis* KUEN 1593 breaks the soy proteins (plant origin proteins) used by production of Sim Bacil down to aminoacids so that they can be easily taken by foliage. *Bacillus subtilis* KUEN 1593 can survive for at least 2 months on the foliage and its metabolic activity helps to make nutrients available for foliar intake so that growth, yield and quality parameters are increased.

## Sim Bacil, Application Methods

Sim Bacil is diluted with water up to 1-2% and 400-1000 Litres of this solution is sprayed per one hectare on the foliage. The application is repeated 2-4 times per season.

Sim Bacil is resistant to chemical fungicides and can be used together with other crop protecting agents, fungicides, insecticides or nematicides and fertilizers.

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# Sim Bacil®

## Foliar applications

Sim Bacil mixed to up 1-2% with water and 400-1000 Litres of this solution is sprayed per one hectare on the foliage.

**Vegetables:** First application after replanting when the plants are 5-10 cm, 2-3 applications every 10-20 days

**Fruit trees:** 1<sup>st</sup> application when leaves are 1-2 cm; 2-3 applications every 15-20 d

**Strawberries :** 1<sup>st</sup> application when the plants wake up, 3-4 applications every 10-15 d

**Banana :** 1<sup>st</sup> application in early spring, 3-5 applications every 15 d

**Vine :** 4 applications at flowering, touching of berries, ripening periods and 21 days before harvest

**Wheat, barley:** 2 applications at the beginning of staking and spiking periods

**Melones :** First application when plants are 15-20 cm; 3 applications every 15-20 days

**Citrus trees :** First application before flowering, 3 applications every 30 days

**Beet :** First application after reducing, 3 applications every 15-20 days

**Cotton :** First application when plants are 15-20 cm; 2 applications every 20-30 days

**Sunflower, corn, colza:** First application when plants are 15-20 cm; 2 applications every 20-30 days

**Soy, beans, penauts, peas:** First application when plants are 5-10 cm; 3-5 applications every 15-20 days

**Potatos, onions, carrots, cabbage:** First application when plants are 15-20 cm; 2-4 applications every 15-20 days

**Ornamental plants, Flowers:** Applications every 20 days during vegetation period



## Irrigation applications

10-20 kg of Sim Bacil per hectare is mixed to irrigation water and applied to vegetables and fruit trees from the beginning of fruit formation on.

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