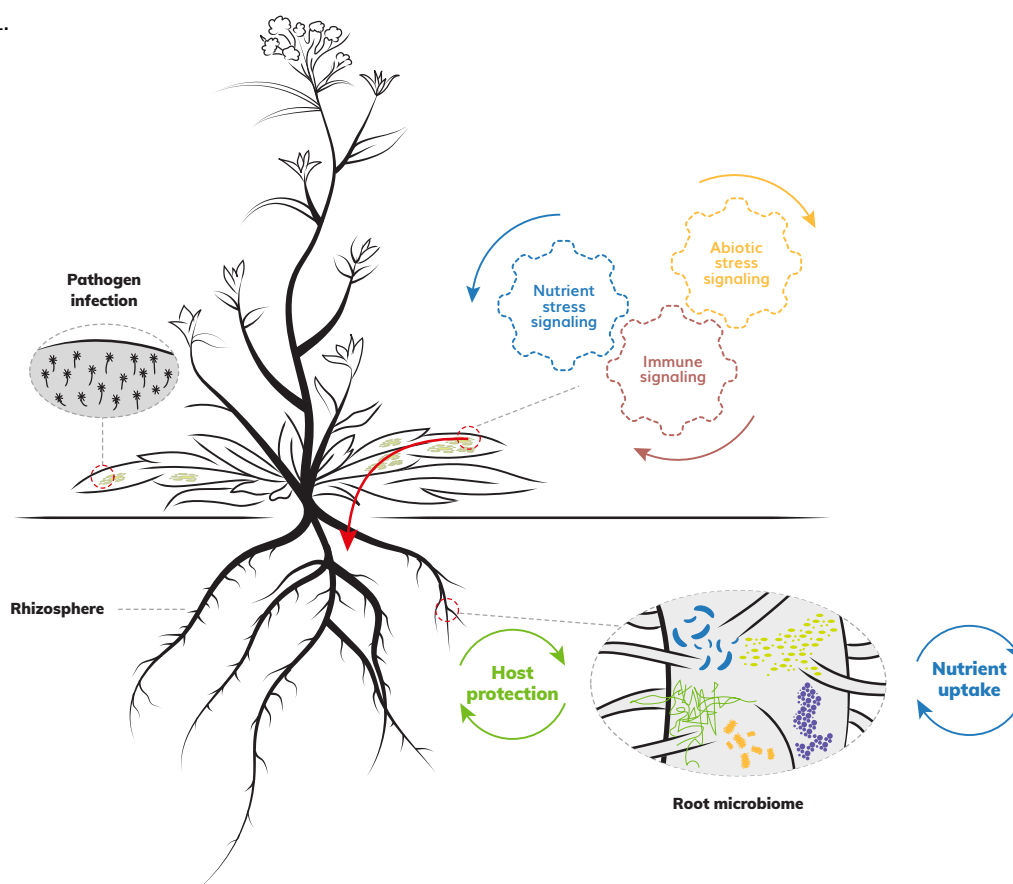




Introduction

Bactoforce is a biological soil improvement product containing *Bacillus mojavensis*. Bactoforce improves soil biological properties and organic matter decomposition and contributes to balanced soil restoration. The product ensures better plant nutrition, promotes nutrient uptake and accordingly optimal plant health.

Figure 1.



Challenges

In the presence of biotic and abiotic factors, the plant is exposed to constant stress, so when the plant experiences a lot of stress, it consumes a lot of nutrients in order to survive, thus losing productivity.

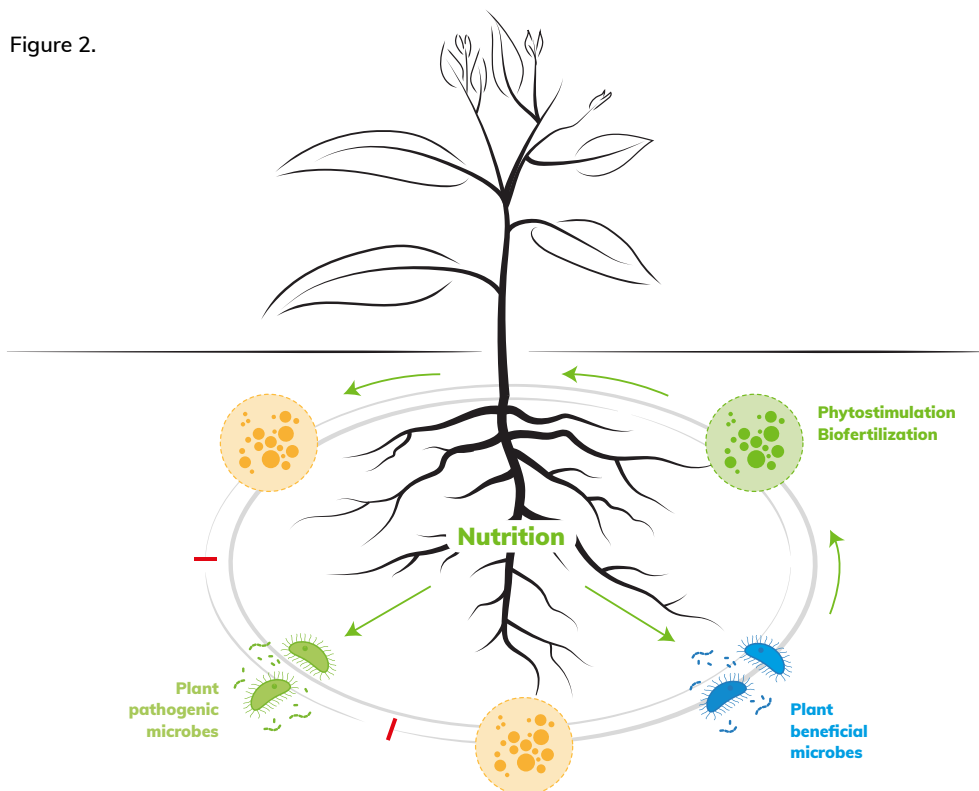
Solution

Bactoforce – microbial biostimulant for plants.

Registration information and certificates

Suitable for: cereals, rapeseeds, corn, sunflower, sugar beet, vegetables, fruit trees, fruit bushes, berries.

Figure 2.



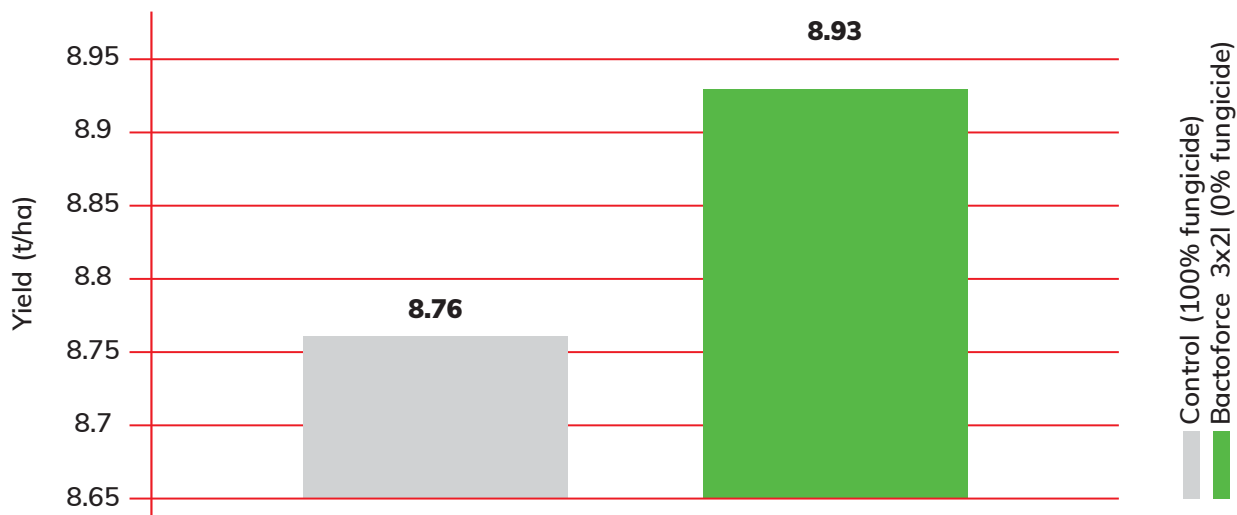
Mode of action

Bactoforce contains *Bacillus* sp. bacteria, which secrete (exude) organic substances that promote the absorption of plant nutrients, and it is the most important during intensive reproduction, thus enhancing the self-sufficiency to plants and accordingly, plants will be more resistant to biotic and abiotic factors.

Benefits and Results

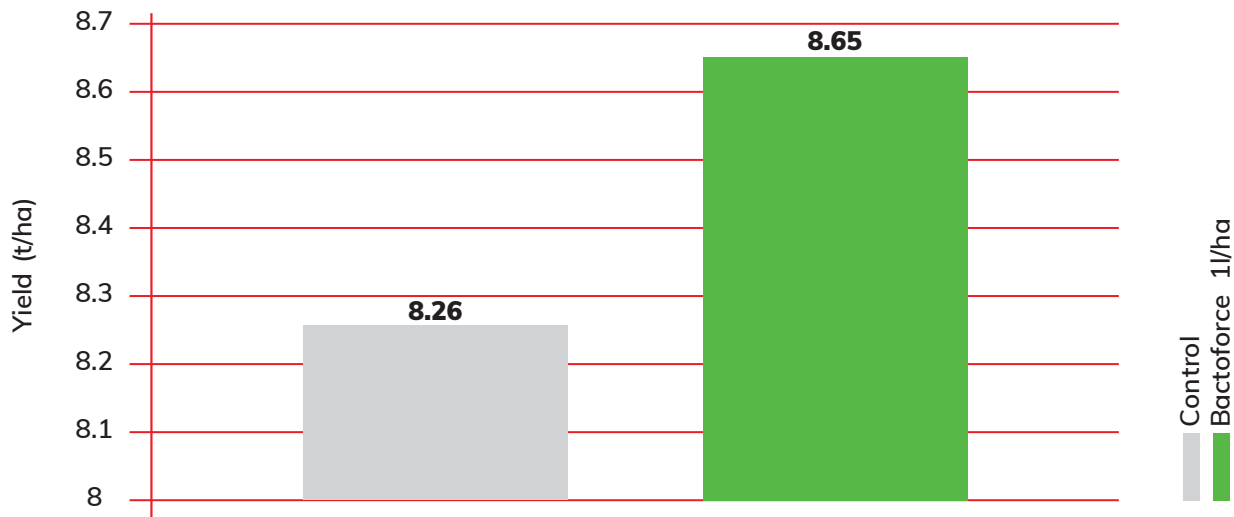
- Improves plant nutrition;
- Increases soil microbiological activity;
- Promotes the activity of beneficial microorgan isms in the rhizosphere;
- Increases yields and its quality;
- Enhances optimal plant nutrition .

Figure 3.



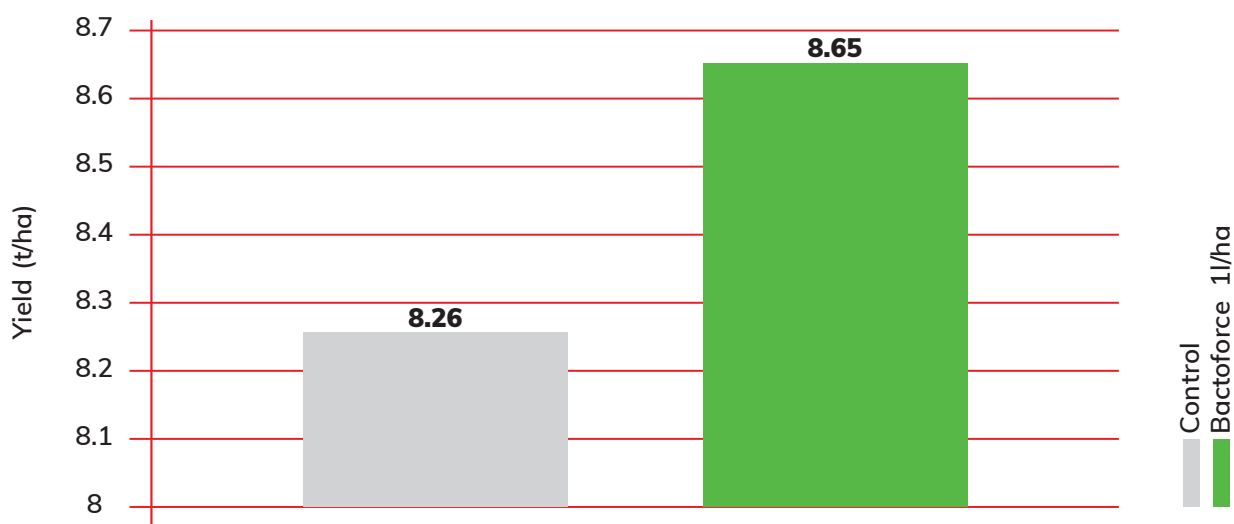
Germany, Winter Wheat, 2020

Figure 4.



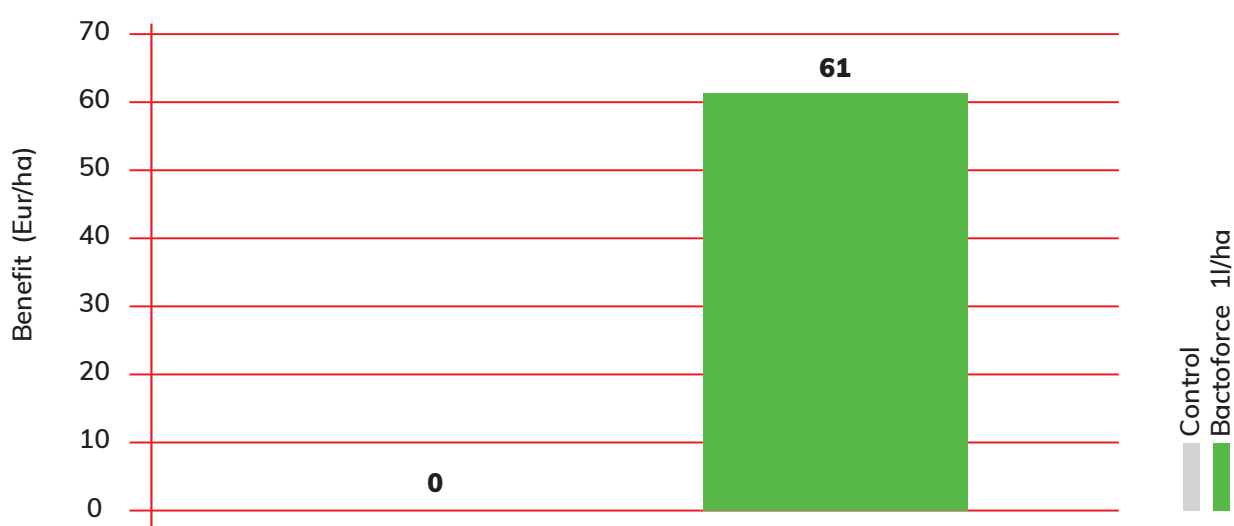
October 2020, Winter Wheat Price 175 Eur/t

Figure 5.



LRCAF Dotnuva Experiment Center, Winter Wheat, 2018

Figure 6.



October 2018, Wheat Price 187 Eur/t

Application rate, technology

Application rate: cereals 1-3 l/ha – BBCH 01-59; rapeseed: 1-3 l/ha – BBCH 01-59; corn, sunflower: 1-5 l/ha – BBCH 01-39; sugarbeet: 1-3 l/ha – BBCH 01-39; vegetables: 1-5 l/ha – BBCH 01-59; fruit trees, fruit bushes: 1-4 l/ha – BBCH 01-59; berries: 1-3 l/ha – BBCH 01-59.

Application time: spray on to the soil before sowing or until flowering. In other case it is recommended to consult sales representative.

Application requirements: the sprayer pressure must be 1-10 bar or 15-145 psi; nozzle size is at least 50 µm.

Safety and storage: product can be mixed with all kinds of fertilizers and pesticides unless the manufacturer of fertilizer or pesticide states otherwise. May contain natural sediments. Storage at high temperature above 30 °C must be avoided. Use Bactoforce as soon as possible after opening or store in the refrigerator (4 °C) once it is opened and use it within 72 h. Contamination of the product may occur at any time after opening and the manufacturer takes no responsibility for opened and unused product.

Product is non-toxic and has no irritating compounds. There is no risk to humans, animals and the environment. After contact with the skin or eyes, wash with running water. Microorganisms may have the potential to provoke sensitising reactions.

Specifications

Composition: *Bacillus mojavensis* MVY-007 (1.2×10^{12} CFU/l). Na-1284 mg/l; K-814 mg/l; P-323 mg/l; S-289 mg/l; Mg-84 mg/l; Ca-51 mg/l.

Packaging: 20 l; 10 l; 5 l; 1 l.

- **Biological activity:** nutrient uptake and assimilation; free-living microorganism;
- **Physical state:** liquid biological product;
- **Viability, shelf life:** 12 months. The manufacturer does not recommend storing the product above 30 °C.
- **Working conditions:** 5-42 °C soil temperature; 4.5 to 9.5 pH;
- **Chemical parameters:** dry matter 13.6%; pH 7.5; organic matter 97%;
- **Physical parameters:** colour from dark brown to black; density 1009.6 g dm³. **Manufacturer:**

"Bioenergy LT", Staniunu str. 83/1, LT 36151 Panevezys, Lithuania.

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