



Microbially vitalised substrates for healthy growth and robust plants

Effective suppression of plant diseases

Growers rely on effective suppression of plant diseases. However, legal requirements allow increasingly little scope for the use of fungicides. This means that plant diseases such as Pythium, Phytophthora and Fusarium may occur again in greater numbers. The addition of biostimulants is intended to have a suppressive effect in substrates and prevent crop diseases.

TerrAktiv PLUS green compost – successful trials about suppressive effects

- Klasmann-Deilmann has conducted several series of scientific trials using biostimulants
- One aim of these studies was to look at how effective various bacteria and fungi are in suppressing crop diseases
- The enhanced, quality-assured green compost product TerrAktiv PLUS, manufactured in-house, was tested for comparison
- A research project carried out by the French research centre ASTREDHOR Loire-Bretagne back in 2013-2015 already highlighted the positive effects of TerrAktiv PLUS green compost products
- The outcomes of the various trials consistently confirm that TerrAktiv PLUS has the strongest suppressive effect
- TerrAktiv PLUS green compost also outperforms commonly used biostimulants
- A proportion of 5-10% by volume in standard substrate blends is sufficient

TerrAktiv PLUS ensures ...

- + ... strong microbial vitalisation of substrates
- + ... improved root growth
- + ... healthier crop growth
- + ... stronger plants
- + ... better leaf coloration
- + ... greater resistance to soil-borne fungal pathogens

TerrAktiv PLUS ...

- + ... is rich in natural amino acids and enzymes
- + ... contains high levels of trace elements

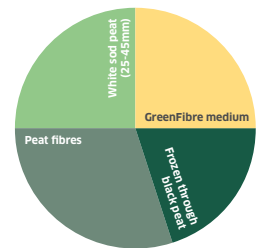


TerrAktiv PLUS – ideal for container-grown crops

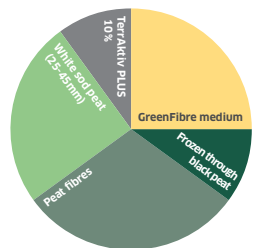
TerrAktiv PLUS ...

- + ... is the ideal alternative to biostimulants for all established container substrates
- + ... yields highly positive effects, especially on the quality of sensitive container-grown crops
- + ... is effective even under non-ideal growing conditions, e.g. nutrient deficiency and abiotic stress caused by fluctuations in temperature and humidity
- + ... may allow a slight reduction in the application of slow-release fertiliser – without undesirable impacts on plant quality

Substrates for container-grown crops



Container Substrate 2 coarse + GreenFibre



Container Substrate 2 coarse + 10% TerrAktiv PLUS

Trial results in substrate inoculated with *Fusarium oxysporum*



Chemically treated with fungicide



10 % TerrAktiv PLUS



Untreated

TerrAktiv PLUS green compost is produced in our own composting facilities and certified to the Dutch RHP standard. During the composting process, the source material is treated with biodynamic substances. Predatory mites (*Hypoaspis miles*) are added to prevent sciarid infestation in the greenhouse.

As TerrAktiv PLUS is used primarily in substrates for organic cultivation, the processes and components employed in its production comply with EU Regulation (EC) No. 834/2007 and Annex I to Implementing Regulation (EC) No. 889/2008, inspected by Ecocert. All raw materials and organic fertilisers are GMO free and regularly tested for residues. TerrAktiv PLUS adheres to the applicable requirements in Germany, Austria and Switzerland.