

EXILVA FOR AGRICULTURAL CHEMICALS

EXILVA MFC AS AN ADJUVANT FOR FUNGICIDE PROPICONAZOLE

Exilva is a completely natural and infinitely sustainable microfibrillated cellulose that improves the uptake of pesticides, as well as enhances structure in your product formulations. Exilva increases your formulation efficiency, reduces your CO₂ footprint and creates exciting opportunities for innovation.

Fungicides are commonly used to protect crops from pathogens which can harm or destroy the crop. In addition to the active ingredient, adjuvants are often used to ensure a good performance of the fungicide in all conditions. Exilva is a natural and safe additive (cellulose, on EPA's inert list) which can boost the effect of propiconazole, a sterol inhibitor type fungicide.



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A product by  **Borregaard**

FUNGICIDE FORMULATION

Exilva was added to the spray solution containing 2.5 fl oz of Banner MAXX II (Syngenta) and sprayed on impatiens plants. The plants were located in the greenhouse by completely randomized design. In addition, a spreader/sticker, Silwet L-77, was added to some treatments. Four days later the plants were treated with *Alternaria alternata* leaf-spot pathogen. All the treatment solutions are given in the table to the right.

FORMULATIONS	1	2	3	4
Material				
BannerMAXX II (fl oz)	2.5	2.5	2.5	2.5
Exilva (%)	-	0.02	-	0.02
Silwet (%)	-	-	0.025	0.025

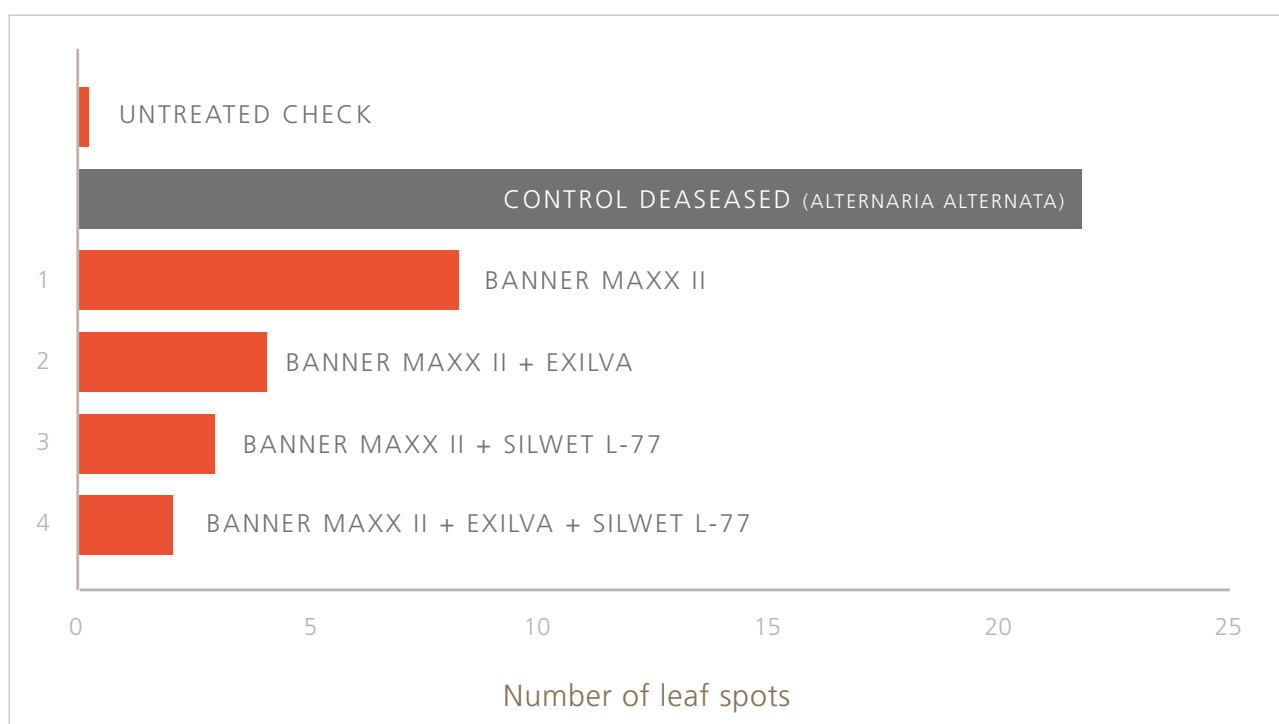


FIGURE 1. The number of leaf spots on impatiens plants 30 days after spores of *alternaria alternata* were applied.

EVALUATION

Figure 1 shows the amount of leaf spots on the plants 30 days after the disease application compared to untreated plants and disease control. When Exilva is added to the spray solution, the number of spots is reduced to less than half compared to propiconazole alone. When adding the wetter, Silwet, together with Exilva, the effect is even more pronounced and better than with Exilva or Silwet alone¹.

CONCLUSION

Exilva, Borregaard's microfibrillated cellulose, improved the efficacy of a fungicide product, propiconazole, in greenhouse testing. Earlier, we have shown that Exilva can enhance the uptake of different herbicides² and now a similar boost was seen with fungicide. The effect was further improved when combining Exilva with a spreader/sticker. Sustainable and bio-based Exilva offers a greener alternative for your agricultural formulation.

^{1,2)} Please contact your sales representative to learn more about the results.

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