

Proactive plant protection with BASF Ornamental fungicides

Plant health benefits and market potential

As the cost and labour demands of ornamental and nursery crops continue to rise, there is a growing recognition of the critical importance of achieving optimal establishment and maintaining plant health. This is especially evident in the face of rising input costs and unpredictable climatic conditions that can lead to unseasonal weather patterns. Nursery and ornamental stock frequently face the threat of disease pressure, which, under favorable conditions, can rapidly spread or even decimate a significant number of plants.



Incorporating a proactive plant protection approach with BASF fungicides will ensure nursery stock is protected in the face of rising disease pressure, mitigating potential commercial losses this season.



Lexicon Intrinsic Brand Fungicide offers broad-spectrum, superior control of diseases, surpassing competing fungicides to inspire confidence in establishing disease free plants and ensuring their ongoing vitality.

The inclusion of Lexicon Intrinsic Brand Fungicide in plant establishment programs offers the additional advantage of advanced health benefits provided by BASF Intrinsic technology.



Accelerated growth rate for new seedlings and treated plants



Effectively controlling challenging diseases



Promoting faster plant establishment



Achieving healthier appearance and reaching market potential with fewer inputs

Ornamental and nursery stock field trials demonstrate accelerated growth of foliage and more advanced rooting compared to both the untreated control and competitor chemistries (Figure 1).

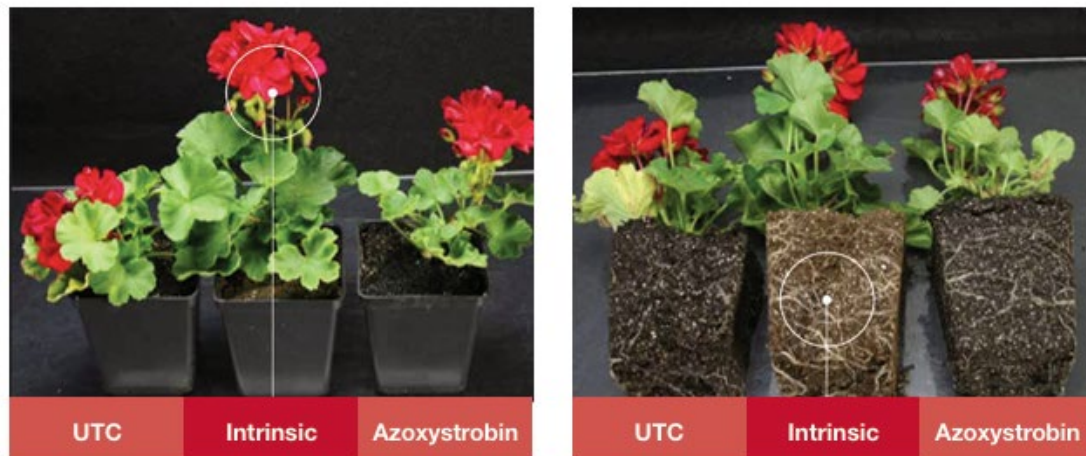


Figure 1: Field trials comparing plants treated with Intrinsic and Azoxystrobin.

Permitted for use against a broad range of tough diseases, Lexicon offers plant protection while providing measurable improvements in growth rates, establishment rates and plant aesthetics. **Growers across the country have now used this unique Lexicon dual technology in order to produce uniform, marketable plants with fewer inputs (Figure 2).**



Figure 2: Field demonstrations comparing untreated plants to those treated with Lexicon.

Serifel®

Biological Fungicide

With sustainability at the forefront of grower and horticulturists' minds, **Serifel** offers a ground-breaking certified organic biological alternative to traditional chemical modes of action. Its high loading of pure spores, *Bacillus amyloliquifaciens* strain MBI600, allows for efficacy at low application rates while guaranteeing **low environmental impact and toxicity**. Serifel achieves suppression of key foliar and soil pathogens with no cross-resistance between Serifel and conventional chemical fungicides.



Pure beneficial spore-forming



Form a shield of protection against plant pathogens



High efficacy with low application rate



Low environmental impact & toxicity

Serifel is one of the most concentrated biological fungicides available anywhere in the world. The high loaded, pure spore formulation allows effective application at lower rates compared to other biological products, normally leaving no detectable spray deposits (Figure 3).



Figure 3. Comparison of a biological competitor and Serifel.

Serifel works most effectively as a preventative treatment. Application before disease pathogens have established on the plant gives Serifel time to germinate, colonise the plant surface and produce its disease-fighting metabolites. As a contact biological fungicide, Serifel forms a **shield of protection** against a broad spectrum of plant pathogens, with three modes of action:

1. Competition for space	2. Competition for sustenance	3. Production of antifungal metabolites
When the Serifel spores are the first to occupy the limited space on the plant, they physically exclude plant pathogens from occupying the same space.	Serifel depletes the supply of nutrients available to the pathogen spores on the plant surface.	Serifel produces specific metabolites – called iturin and surfactin – that prevent pathogens from germinating by disrupting their cell membranes.

Lexicon Intrinsic & Serifel Biological Fungicides together form your Ultimate Duo for proactive plant protection

Find out more about– [Lexicon Intrinsic Brand Fungicide](#) and [Serifel Biological Fungicide](#) in our [STEWARDSHIP HUB](#) and speak to your local distributors to source the solutions or contact our BASF Ornamental solutions team directly [here](#) to learn about our pipeline of innovation.

 **BASF**
We create chemistry