control of diseases like anthracnose (Colletotrichum graminicola), brown ring patch, caused by Waitea circinata pv circinata, and leaf spots like Bipolaris and Dreschlera spp. was achieved with Lexicon Intrinsic at both labeled rates (0.34 and 0.47 fl. oz. /1000 sq. ft.).

Lexicon Intrinsic is a next generation Intrinsic product that delivers both superior disease control and advanced plant health, including the ability to withstand stresses such as extreme temperatures, drought, mechanical processes such as aerification, etc.

To demonstrate the impact on rate of photosynthesis, fungicide-treated leaf disks or segments were put into a sodium bicarbonate solution with detergent. This solution provides a carbon source for photosynthesis and breaks the surface tension on the leaf surface. After drawing a vacuum to remove the cellular interstitial space, the leaves sink to the bottom and are placed in the dark for five minutes. The leaf segments were then placed into cuvettes under light, and as oxygen was released and bubbles formed on the leaf surface, the leaf segments floated. The quicker float time indicates a faster rate of photosynthesis and healthier turf plants; Lexicon Intrinsic treated turf (0.47 fl. oz. /1000 sq. ft.) had the fastest photosynthetic rate compared to Heritage TL (2 fl. oz. /1000 sq. ft.) or untreated leaves (Figure 4).

With Intrinsic fungicides, the turf is able to recover from stresses more quickly due to internal physiological changes and a stronger root system. Research indicates that Lexicon Intrinsic Brand Fungicide is effective on over 30 disease organisms, and is a fast acting fungicide, which provides additional plant health benefits. Both Lexicon Intrinsic and Xzemplar received US EPA registration December 17, 2013. Always read and follow label directions.

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Heritage TL is a registered trademark of a Syngenta Group Company.

Velista is a Trademark of E.I. DuPont de Nemours and Company (as of this submission).