

Macro-Sorb® Quelant-Ca increases Calcium Concentration in Leaf Tissue

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Summary

The objective of this study was to determine calcium concentration in tall fescue leaf tissue following foliar applications of Macro-Sorb® Quelant-Ca. Tall fescue plants were treated with Quelant-Ca at the rate of 2.0 fl oz/1000 ft² on 10 day intervals for a total of 4 applications. Untreated plants were used to compare levels of calcium throughout the study. Following applications, tissue samples were collected by harvesting leaves, triple rinsing with distilled water to remove any remaining residue from the surface, and analyzing for calcium. Tissue samples were collected and analyzed 24 hours after applications, and 5 weeks after the final application. At just 24 hours after applications of Quelant-Ca, calcium leaf concentrations increased 18% compared to the untreated control (Figure 1.). Calcium concentrations continued to increase after each application, and remained much higher than the untreated control even 5 weeks after the final application (Figure 2.). Results from this study indicate that Quelant-Ca can be used to correct a known calcium deficiency or enhance calcium concentrations in leaf tissue throughout the growing season.

Figure 1. Calcium concentration in tall fescue leaves 24 hours after applications of Macro-Sorb Quelant-Ca at 2.0 fl oz/1000 ft².

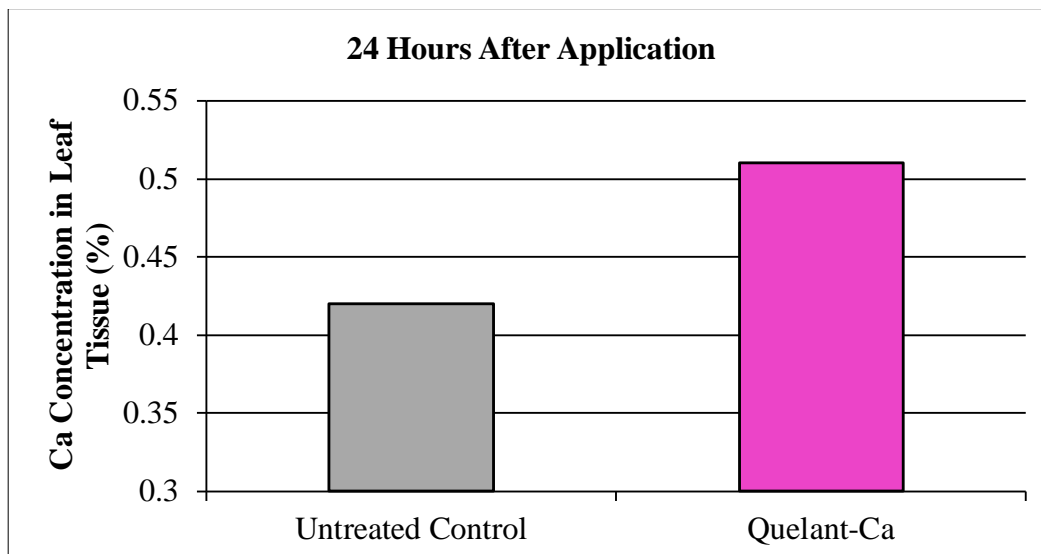


Figure 2. Calcium concentration in tall fescue leaves 5 weeks after final application (4 apps total) of Macro-Sorb Quelant-Ca at 2.0 fl oz/1000 ft².

