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Effect of Foliar Application of Amino Acid Formulations on Crop Productivity of Tea

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Abstract

Amino acids together with carbohydrates are a group of organic molecules found in greater quantities in living beings. This research was conducted to evaluate the effect of foliar application of amino acid formulations (Terra Sorb foliar and Biokad-20) on crop productivity of tea plants. Field experiment was laid out in Randomized Complete Block Design with DT-1 cultivar. Among the different treatments tested, significant improvement in the yield was noticed in Biokad and Terrasorb amino acid based foliar formulations. Yield improvements of Biokad and Terrasorb were about 61% and 55%, respectively. The effect of Biokad with Zinc Sulphate and Terrasorb with Zinc Sulphate combinations were relatively lower than that of Biokad and Terrasorb alone. Significant difference was observed in nitrogen, calcium, magnesium, and zinc contents in mother leaves. Therefore foliar application of amino acid based plant nutrients was highly effective in improving the productivity of tea cultivation in Sri Lanka.

Key words: *Amino acid, foliar applications, tea*
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