

Research Article

Effect of foliar spraying of seaweed extracts on the pigment concentration of sugarcane

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Summary

The experiment was conducted on sugarcane during the year 2012-13 to study the effects of foliar applications of different concentrations of seaweed extracts (prepared from *Kappaphycus alvarezii* and *Glacilaria* sp.) on pigment concentration of sugarcane. The foliar spray was applied three times (30, 75 and 110 days after planting) at each five concentrations 2.5%; 5%; 6.5%, 7.5% and 10% of both seaweed extracts. Foliar applications of seaweed extract significantly responds to pigment concentration of sugarcane. Seaweed extract of *Kappaphycus alvarezii* promoted maximum photosynthetic pigments at 10% concentration, followed by 10% seaweed extract *Glacilaria* sp compared to all the treatments. Among the two seaweed extracts used, *Kappaphycus alvarezii* showed better results than the *Gracilaria* sp.

Key words : Seaweed extract, *Kappaphycus alvarezii*, *Glacilaria* sp., Sugarcane, Pigment content

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