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(54) Title of the invention : Application of Micro nutrients and Organic manures on plant growth of Dragon fruit c.v. Moroccan Red”

(57) Abstract :

This invention relates to a sustainable method for improving the growth, yield, and quality of Dragon Fruit (Hylocereus spp.), specifically the Moroccan Red variety, through the integrated application of micronutrients and organic manures. The method combines essential micronutrients such as zinc, boron, iron, and copper with organic manures like vermicompost, poultry manure, and farmyard manure to create a balanced nutrient regimen. This approach enhances plant physiological processes, improves soil fertility, and supports beneficial microbial activity, leading to better plant growth, increased fruit yield, and superior fruit quality, including improved size, color, sweetness, and shelf life. By reducing dependency on synthetic fertilizers, the invention promotes environmental sustainability and offers a cost-effective solution for farmers seeking to adopt eco-friendly agricultural practices.

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