EFFECT OF PLANT GROWTH REGULATORS ON QUALITY PARAMETERS OF SWEET POTATO (IPOMOEA BATATAS (L.) LAM.)

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Abstract: A field experiment was carried out during kharif2016-17 at Kittur Rani Channamma College of Horticulture, Arabhavi (Karnataka) to study the effect of growth regulators on quality parameters of sweet potato [Ipomoea batatas (L.) Lam.]. The maximum beta carotene content (7.65 mg) was recorded in combination of GA₃ @ 100 ppm and CCC @ 250 ppm (T₁₀), followed by single treatment GA₃ @ 100 ppm (T₁) (6.72 mg/100g). Significantly maximum reducing sugar content (7.40%) was recorded in treatment combination of GA₃ @ 100 ppm and CCC @ 250 ppm (T₁₀), significantly maximum starch content (22.50%) was recorded in treatment combination of GA₃ @ 100 ppm and CCC @ 250 ppm (T₁₀).

Keywords: Ipomoea batatas, Plant growth regulators, Quality parameters

REFERENCES

Anonymous (2015), Indian Horticulture Database, National Horticultural Board.


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