

RESEARCH PAPER

ADVANCE RESEARCH JOURNAL OF
C R P
IMPROVEMENT
Volume 7 | Issue 1 | June, 2016 | 46-51
••••• e ISSN-2231-640X

DOI:
10.15740/HAS/ARJCI/7.1/46-51
Visit us: www.researchjournal.co.in

Influence of micronutrients and growth regulators on the performance of cabbage quality

■ A.V. KOTECHA¹, J.J. DHURVE , N. J. PATEL² AND N.J.VIHOI¹

AUTHORS' INFO

Associated Co-author :

¹Department of Horticulture, B.A.
College of Agriculture, Anand
Agricultural University, ANAND
(GUJARAT) INDIA

²Department of Biochemistry, B.A.
College of Agriculture, Anand
Agricultural University, ANAND
(GUJARAT) INDIA

Author for correspondence:

J.J. DHURVE

Department of Biochemistry, B.A.
College of Agriculture, Anand
Agricultural University, ANAND
(GUJARAT) INDIA
Email: jitendra_dhruve@yahoo.com

ABSTRACT : A field experiment was undertaken on cabbage cv. GOLDEN ACRE at Horticultural Research cum Demonstration Farm, Department of Horticulture, B.A. College of Agriculture, Anand Agricultural University, Anand in order to evaluate the performance of micronutrients (Zn and Fe) and growth regulators (Gibberellic acid and Naphthalene acetic acid) alone and their combinations applied as foliar spray for cabbage quality. The different levels of micronutrients were found significant on ascorbic acid and chlorophyll contents of cabbage head, maximum ascorbic acid (49.4 mg/100g fresh wt.) and chlorophyll content (0.412 mg/g fresh wt.) of cabbage head were recorded with treatment M₁ (zinc sulphate 0.5%). Among different levels of growth regulators, GA₃ @ 100 ppm recorded significantly highest ascorbic acid content (46.16 mg/100g fresh wt.), chlorophyll content (0.383 mg/g fresh wt.). While non-significant effect was recorded for total soluble solids on cabbage head. Among the interactions of micronutrients and growth regulators, the interaction M₁G₂ recorded significantly the highest ascorbic acid content (57.99 mg/100g fr. wt.), chlorophyll content (0.505 mg/g fr. wt.) of cabbage head.

KEY WORDS : Ascorbic acid, Cabbage, Chlorophyll, Total soluble solids

How to cite this paper : Kotecha, A.V., Dhruve, J.J., Patel, N.J. and Vihol, N.J. (2016). Influence of micronutrients and growth regulators on the performance of cabbage quality. *Adv. Res. J. Crop Improv.*, 7 (1) : 46-51, DOI : 10.15740/HAS/ARJCI/7.1/46-51.

Paper History : Received : 27.02.2016; Revised : 28.03.2016; Accepted : 28.04.2016