THE EFFECT OF NAPHTHALENE ACETIC ACID, BENZYL ADENINE AND PLANT AGE TO SHOOTING CAPABILITY, GROW, FLOWERING OF DENDROBIUM WHITE 5N ORCHID

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Summary

The study was conducted to evaluate effects of NAA, BA and plant age to shooting capability, grow, flowering of Dendrobium White 5N. The first content evaluated the effects of NAA and BA concentrations to promote shooting and flowering of D.White 5N, 21 months-old. The second contents evaluated effects of NAA and BA to shooting capability, growth, flowering of D.White 5N at different plant ages. In the first content, NAA (0, 5, 10, 15, 20 ppm) and BA (0, 30, 60, 90, 120 ppm) were sprayed only once for plant. The results indicated that D.White 5N treated with NAA 10 ppm and BA 120 ppm have induced growth of new shoots earliest at 38 and 37 days after spraying, highest rate of new shoots on plant were 53% and 54.8%, highest number of new shoots was 1.3 shoots. The treatment of mixture between NAA 10 ppm and BA 120 ppm have induced growth of new shoots earliest at 15 days after spraying, highest rate of new shoots on plant was 73.7%, highest number of new shoots was 2 shoots. NAA 10 ppm and BA 120 ppm induced a positive effect on the new shoots, increased the number of new shoots and did not affect on quality of the flowers. Spraying application of mixtures of NAA 10 ppm and BA 120 ppm effected on new shoots, growth and flowering of D.White 5N at three plant ages (15, 21, 27 months-old). The 21 months-old orchids have induced growth of new shoots earliest at 16 days after spraying, highest rate of new shoots on plant was 88.3%.

Key word: BA, Dendrobium White 5N, NAA, shoot