

UV Application on Post Harvest Quality of Baby Corn during Distribution

Panumas Kotepong and Phadung, T.

Department of Agriculture Thailand Government, Thailand

Abstract

This study considered the effect of type of Ultraviolet (UV) light on quality of baby corn during distribution. Baby corn were packed on polyvinyl chloride (PVC) trays in the amount of 100 gram/tray. They were put in low density polyethylene (LDPE) bags and were then placed on the shelf at 5 oC under different conditions of UV exposure at 2 kJ/m² for 5 minutes per day. The sample was experimented under four different conditions: 1) no UV exposure (control), 2) UV-A exposure (UV-A), 3) UV-B exposure (UV-B), and 4) UV-C exposure (UV-C). All treatments were exposed to fluorescent lights for 12 hours per day for simulating shelf life conditions. The results of experiment showed that Baby corn exposed UV of all treatments had higher score on firmness, lightness (L*), yellow color (b*), vitamin C content and total carotenoids than baby corn of control treatment during distribution period of 28 days. Thus, the experiment results indicated that UV could maintain quality and prolong shelf life of baby corn.



Biography:

Panumas Kotepong is currently working as a senior scientist at the Department of Agriculture, Thailand. He has received his Ph.D. on horticulture from Kasetsart University, Thailand and postdoctoral studies on plant biology from Lincoln University, New Zealand. He has authored several publications in various journals and books. His publications reflect his research interests in postharvest technology and plant biochemistry.

Speaker Publications:

1. Panumas Kotepong, Effect of oxygen and carbon dioxide on marsh mint quality during storage [2016]. PY – 2016 SP – 320 EP – 327, A2 - FAO of the UN.
2. Panumas Kotepong, Thai National AGRIS Centre, Kasetsart University. Conference 2018 page 734-740.
3. Phadung, T., Kotepong, P., Lertrat P., Laipad, S. and Chongchuaklang, K., Nutrient Management of Potato Based on Soil and Plant Analysis, Songklanakarin Journal of Plant Science, Vol. 4, No. 4 (October-December): 73-81, 2017.
4. Phadung, T., Kotepong, P., Lertrat P., and Laipad, S.1, Fertilizers Application using Soil and Plant Analysis for Baby Corn Production, Songklanakarin Journal of Plant Science, Vol. 6, No. 3 (July-September): 59-68, 2019.



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