

## REFERENCES

1. Abd-El-Al-MG, Abd-El-Fadel-MG, El-Samahy-SK and AlKar-A (1994). Application of microwave energy in the heat treatment of fruit juices, concentrates and pulps. *Fruit Processing*, **4**, 307-312.
2. Abreu, M., Beirão-da-Costa, S., Goncalves, E. M., Beirão-da-Costa, L. and Moldão-Martins, M. (2003). Use of mild heat pre-treatment for quality retention of fresh cut 'Rocha' pear. *Postharvest Biology and Technology*, **30**, 153-160.
3. Anastasia, B.B., Katerina, P. and Michael, G.K. (1999). Effect of microwave versus conventional heating on the migration of dioctyladipate and acetyltributyl citrate plasticizers from food grade PVC and P (VDC/VC) films into fatty foodstuffs. *Zeitschrift fur Lebensmittel-Untersuchung und-Forschung A*, **208**, 429-433.
4. Ancos, B., Cano, M., Hernandez, A. and Monreal, M. (1999) Effect of microwave heating on pigment composition and colour of fruit puree. *Journal Science of Food and Agricultural*, **79**, 663-670.
5. Ancos, B., Cano, M., Hernandez, A. and Monreal, M. (1999) Effect of microwave heating on pigment composition and colour of fruit puree. *Journal Science of Food and Agricultural*, **79**, 663-670.
6. AOAC (2000). *Official methods of analysis*; Association of Official Analytical Chemist: Arlington.
7. Askari, G.R., Emam-Djomeh, Z. and Mousavi, S.M. (2006). Effects of combined coating and microwave assisted hot-air drying on the texture,

- microstructure and rehydration characteristics of apple slices. *Food Science and Technology International*, **12(1)**, 39-46.
8. Begium, S. and Brewer, M.S. (2000). Physical, chemical and sensory quality of microwave-blanched snow peas. *Journal of Food Quality*, **24**, 479-493.
  9. Billaud, C., Regaudie, E., Fayad, N., Richard-Forget, F. & Nicolas, J. (1995). Effect of cyclodextrins on polyphenol oxidation catalyzed by apple polyphenol oxidase. In C.Y. Lee & J.R. Whitaker, eds. *Enzymatic Browning and Its Prevention*. 295-312. ACS Symposium Series 600, Washington, DC, American Chemical Society.
  10. M. M. (1976). A rapid and sensitive method for the quantitation of microgram quantities of protein utilizing the principle of protein. *Analytical Biochemistry*, **72**, 248-254.
  11. Brewer, M.S. and Begum, S. (2003). Effect of microwave power level and time on ascorbic content, peroxidase activity and color of selected vegetables. *Journal of Food processing preservation*, **27**, 411-426.
  12. Cano, M.P., Marin, M.A. and Fúster, C. (1990). Freezing of banana slices influence of maturity level and thermal treatment prior to freezing. *Journal of Food Science*, **55**, 1070-1072.
  13. Cheftel, J.C. (1992). Effects of high hydrostatic pressure on food constituents: overview. In Balny, C., Hayashi, R., Heremans, K. & Masson, P., eds. *High Pressure and Biotechnology*. 195-209. London, John Libbey Eurotext.
  14. Cheng, J. T., Lin, T. C. and Hsu, F. L. (1995). Antihypertensive effect of corilagin in the rat. *Can. Journal of Physiology and Pharmacology*, **73**, 1425-1429.

15. Chutintrasri, B. a and Noomhorm. Thermal inactivation of polyphenoloxidase in pineapple puree. *LWT -Food Science and Technology*, 39(5), 492-495.
16. Cinquanta, L., Matteo, M. D. and Esti, M. (2002). Physical pre-treatment of plums (*Prunus domestica*). Part 2. Effect on the quality characteristics of different prune cultivars. *Food Chemistry*, **79**, 233-238.
17. Crivelli, G., Cortellino, G., Genna, A. and Citro, D. (1998). L'essiccamento delle prugne: ricerche sulla qualità e sull'idoneità varietale. *Rivista di Frutticoltura*, **60 (10)**, 37-40.
18. Dararatana, T. (1999). Financial cost-benefit analysis of dried longan industry in Lamphun and Chiang Mai Provinces. M.S.Thesis, Chiang Mai University.
19. Deman, J. M. (1990). Principle of food chemistry 2<sup>nd</sup> edition. AVI book New York.100-202.
20. Devec, C., Rodríguez-López, J. N., Fenoll, L. G., Hernández, D. S., Reyes, E. and García-Cánovas, G. (1999). Enzyme inactivation analysis for industrial blanching applications: Comparison of microwave, conventional and combination heat treatments on mushroom polyphenol oxidase activity, *Journal of Agricultural and Food Chemistry*, **47**, 4506-4511.
21. Droby, S., Chalutz, E., Horev, B., Cohen, L., Gaba, V., Wilson, C.L. and Wisniewski, M. (1993). Factors affecting UV-induced resistance in grapefruit against the green mould decay caused by *Penicillium digitatum*. *Plant Pathology*, **42** , 418-424.
22. Funebo, T., Ahrné,L., Kidman, S., Langtoe, M. and Skjöldebrand, C. (2000). Microwave heat treatment of apple before air dehydration-effects on physical properties and microstructure. *Journal of Food Engineering*, **46**, 173-182.

23. Gueres, B. and Bayindirli, A. (1993). Peroxidase and lipoxigenase inactivation during blanching of green peas and carrots. *LWT-Food and Technology*, **26**, 406-410.
24. Hammer, F. E. (1993). Enzymes in food processing 3<sup>rd</sup> of edition. Academic Press, Inc. San Diego. California. 233-244.
25. Huang, Y., Sheng, J., Yang, F. and Hu, Q. (2007). Effect of enzyme inactivation by microwave and oven heating on preservation quality of green tea. *Journal of Food Engineering*, **78**, 687-692.
26. Jiang, Y. (1999). Purification and some properties of polyphenol oxidase of longan fruit. *Food Chemistry*, **66**, 75-79.
27. Jiang, Y.M. and Li, Y.B. (2001). Effects of chitosan coating on postharvest life and quality of longan fruit. *Food Chemistry*, **73**, 139-143.
28. Kadam, D.M., Samuel, D. V., Chandra, P. and Sikarwar (2006). Impact of processing treatments and packaging material on some properties of stored dehydrated cauliflower. *International Journal of Food Science Technology*, article in press.
29. Katsaboxakis, K. Z. and Papanicolaou, D. N. (1984). The consequences of varying degrees of blanching on the quality of frozen green beans. The Seminar of the European Cooperation in Scientific and Technical Research. London. 684-690.
30. Ke, D. and Saltveit, M.E. (1988). Plant hormone interaction and phenolic metabolism in the regulation of russet spotting in iceberg lettuce. *Plant Physiology*, **88**, 1136-1140.
31. Klinger, R. W. and Decker, D. (1989). Microwave heating of soybeans on laboratory and pilot scale. *Engineering and Food*, **2**, 259-270.
32. Latte, K. P. and Kolodziej, H. (2000). Antifungal effects of hydrolysable tannins and related compounds on dermatophytes, mould fungi and yeasts. *Z. Naturforsch.*, **55c**, 467-472.
33. Lin, Z. F., Li, S. S., Zhang, D. L., Liu, S.X., Li, Y. B., Lin, G. Z. and Chen, M. D. (1988b). The changes of pigments, phenolic content and activities of

polyphenol oxidase and phenylalanine ammonia-lyase in pericarp of postharvest litchi fruit. *Acta Botanica Sinica*, **30**, 40-45.

34. Lopez-Galvez, G., Saltveit, M.E. and Cantwell, M.I. (1996). The visual quality of minimally processed lettuce stored in air or controlled atmospheres with emphasis on romaine and iceberg types. *Postharvest Biology and Technology*, **8**, 179-190.
35. Martinez, M. V. and Whitaker, J.R. (1995). The biochemistry and control of enzymatic browning, *Trends in Food Science and Technology*, **6**, 195-200.
36. Martínez-Téllez, M.A. and Lafuente, M.T. (1997). Effect of high temperature conditioning on ethylene, phenylalanine ammonia-lyase, peroxidase and polyphenol oxidase activities in flavedo of chilled 'Fortune' mandarin fruit. *Journal of Plant Physiology*, **150**, 674-678.
37. Marshall, M.R., Kim, J. and Wei, C. (2000). Enzymatic browning in fruits, vegetables and seafoods. [online] Available <http://www.fao.org> (25 March 2008).
38. Mortin, J. F. (1987). Longan. In *Fruits of warm climates*; Julia F. Morton: Miami, FL, 259-262.
39. Negi, P.S. and Roy, S.K. (2001). Retention of quality characteristics of dehydrated green leaves during storage. *Plant Foods for Human Nutrition*, **56**, 285-295.
40. *Official of Agricultural Economics, Thailand* (2005). [online] Available <http://www.oae.go.th> (10 April 2008).
41. Okabe, S., Sukanuma, M., Imayoshi, Y., Taniguchi, S., Yoshida, T. and Fujiki, H. (2001). New TNF-R releasing inhibitors, geraniin and corilagin, in leaves of *Acer nikoense*, Megusurino-ki. *Biological and pharmaceutical Bulletin*, **24**, 1145-1148.

42. Orlow, S.J., Zhou, B.K., Chakraborty, A.K., Drucker, M., Pifko-Hirst, S. and Pawelek, J.M. (1994). High-molecular-weight forms of tyrosinase and the tyrosinase-related proteins: evidence for a melanogenic complex. *Journal of Investigative Dermatology*, **103**(2), 196-201.
43. Özdemir, M., Seyhan, F.G., Bakan, A.K., İlter, S., Özyay, G. and Devres, O. (2001). Analysis of internal browning of roasted hazelnuts. *Food Chemistry*, **73**, 191-196.
44. Paull, R.E. and Chen, N.J. (1987). Changes in longan and rambutan during postharvest storage. *Horticultural Science*, **22**(6), 1303-1304.
45. Peiser, G., López-Gálvez, G., Cantwell, M.I. and Saltveit, M.E. (1998). Phenylalanine ammonia-lyase inhibitors control browning of cut lettuce. *Postharvest Biology and Technology*, **14**, 171-177.
46. Peng L., Jiang, Y. (2004). Effects of heat treatment on the quality of fresh-cut Chinese water chestnut. *International Journal of Food Science & Technology*. **39** (22), 143-148.
47. Pereira, N., Marsaioli A. and Ahrné, L. M. (2007). Effect of microwave power, air velocity and temperature on the final drying of osmotically dehydrated bananas. *Journal of Food Engineering*, **81**, 79-87.
48. Pongsakul, N, Leelasart, B. and Rakariyatham, N. (2006). Effect of L-cysteine, potassium metabisulfite, ascorbic acid and citric acid on inhibition of enzymatic browning in longan. *Chiang Mai Journal of Science*, **33**(1), 137-141.
49. Porreta, E. and Leonic, C. (1989). Preparation of high-quality tomato products using enzyme inactivation by microwave heating. *Engineering and Food*, **2**, 251-256.

50. Pot, I., Neidhart, S., Mühlbauer, W. and Carle, R. (2005). Quality improvement of non-sulphite mango slices by drying at high temperatures. *Innovative Food Science & Emerging Technology*, **6**, 412-419.
51. Prapaipong, H. and Rakariyatham, N. (1990) Enzymic browning in longan (*Dimorcarpus longan* Lour.). *Microbial Utilization of Renewable of Resources*, **7**, 77-78.
52. Prothon, F., Ahrné, Funebo, T., Kidman, S., Langton, M. and Sjöholm (2001). Effects of combined osmotic and microwave dehydration of apple on texture, microstructure and rehydration characteristics. *LWT-Food Science and Technology*, **34**, 95-100.
53. Rangkadilok, N. Worasuttayangkurn, L., Bennet, R. N. and Satayavivad, J. (2005). Identification and Quantification of polyphenolic compounds in longan (*Euphoria longana* Lam.) fruit. *Journal of Agricultural and Food Chemistry*, **53**, 1387-1392.
54. Riov, J., Monselise, S.P. and Kahan, R.S. (1968). Effect of gamma radiation on phenylalanine ammonia-lyase activity and accumulation of phenolic compounds in *Citrus* fruit peel. *Radiation Botany*, **8**, 463-466.
55. Rodríguez-López, J. N., Fenol, L. G., Tudela, J., Devecé, C., Sánchez-Hernández, D.S., Reyes, E. and García-Cánovas, G. (1999). Thermal inactivation of mushroom polyphenoloxidase employing 2,450 MHz microwave radiation. *Journal of Agricultural and Food Chemistry*, **47(8)**, 3028-3035.
56. Raynal, J., Moutounet, M. and Souquet, J.M. (1989). Intervention of phenolic compounds in plum technology. 1. Changes during drying. *Journal of Agricultural and Food Chemistry*, **37**, 1046-1059.

57. Salinrat Wichaipanich, S and Ramingwong, K. (2004). Identification of Longan var. Daw by Morphological Method. *Journal of Agriculture*, **20(2)**, 142-154.
58. Saltveit, M. E. (2000). Wound induced changes in phenolic metabolism and tissue browning are altered by heat shock. *Postharvest Biology and Technology*, **21**, 61-69.
59. Sapers, G.M. and Hicks, K. B. (1989). Inhibition of enzymatic browning. Advances in fruits and vegetables in quality factors of fruits and vegetables: Chemistry and Technology. ACC Symposium. Am. Chem. Soc. Washington, DC. 29-43.
60. Shen, Q., Kong, F. and Wang, Q. (2006). Effect of modified atmosphere packaging on the browning and lignifications of bamboo shoots. *Journal of Food Engineering*, **77**, 348-354.
61. Shewfelt, R.L. (1987). Quality of minimally processed fruits and vegetables. *Journal of Food Quality*, **10**, 143-156.
62. Solva-Fortuny, R. C., Grigelmo-Miguel, N., Odriozola-Serrano, I, Gorinstein, S. and Martin-Belloso, O. (2001). Browning evaluation of ready -to-eat apples as affected by modified atmosphere packaging. *Journal of Agricultural and Food Chemistry*, **49**, 3685-3690.
63. Tomás-Barberán, F.A., Loaiza-Velarde, J., Bonfanti, A. and Saltveit, M.E. (1997). Early wound- and ethylene-induced changes in phenylpropanoid metabolism in harvested lettuce. *Journal of American society for Horticultural Science*, **122**, 399-404.
64. Vámos-Vigyázó, L. (1981). Polyphenol oxidase and peroxidase in fruit and vegetables. *CRC critical reviews in Food Science and Nutrition*, **15**, 49-127.
65. Varith, J., Dijkaanrukkul, P., Achariyaviriya, A. and Axhriyaviriya, S. (2007). Combined microwave-hot air drying of peeled longan. *Journal of Food Engineering*, **81**, 459-468.
66. Weemaes, C.A., Ludikhuyze, L.R., Broeck, I., Hendrickx, M.E. and Tobback, P.P. (1998). Activity, electrophoretic characteristics and heat inactivation



- of polyphenol oxidase from apples, avocados, grapes, pears and plums. *LWT-Food Science and Technology*, **31**, 41-49.
67. Williams, D. C., Miang, H. L., Andi, O.C., Rose, M. P. and John, R. W. (1986). Blanching of vegetables for freezing – which indicator enzyme to choose. *Journal of Food Technology*, **40(6)**, 130-140.
68. Wong, K. C. (2000). Longan production in Asia (Publication No. 2000/20). Bangkok: Thailand. Food and Agriculture organization of the United Nations regional office for Asia and the Pacific.
69. Zucker, M. (1965). Induction of phenylalanine deaminase by light and its relation to chlorogenic acid synthesis in potato tuber tissue. *Plant Physiology*, **40**, 779-784.