

Research & Development

Effect of dehydration temperature as hurdle on shelf life of ready-to-eat chicken curry

By K.S. Rathod, P.N. Zanjad and R.K. Ambadkar

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References

1. AOAC (1990): Official Methods of Analysis. 15th edn. Association of Official Agricultural Chemists, Kenneth Heirich (Ed.), Arlington, Virginia, USA.
2. APHA (1992): Compendium of Methods for the microbiological Examination of Foods. Speck, M.L. (ed.), American Public Health Association, Washington, W.C.
3. BELL, R.G. and A.M. GAROUT (1994): The effect of product life of vacuum-packaged beef imported into Saudi Arabia by sea, as assessed by chemical, microbiological and organoleptic criteria. *Meat Sci.* 36 (30), 381–396.
4. BRANEN, A.L. (1979): Interaction of fat oxidation and microbial spoilage in muscle foods. Proceedings of the 31st Annual Reciprocal Meat Conference. pp. 156 (cited in FSTA, 1980, 12, 2S 316).
5. BUSCAILHON, S., J.L. BERDAGUE, J. BOUSSET, M. CORNET, G. GANDEMER, C. TOURALLE and G. MONIN (1994): Relations between compositional traits and sensory qualities of French dry-cured ham. *Meat Sci.* 37 (2), 229.
6. DAS, H. and K. RADHAKRISHNA (2001): Preservation of mutton as ready to eat Curry by hurdle technology. *J. Food Sci. Technol.* 38 (3), 287–289.
7. DAS, H. (2002): Effect of Marination, Packaging and Storage period on Quality and Stability of Hurdle Processed Chevon at Refrigeration. *J. Food Sci. Technol.* 39 (5), 507–514.
8. DAS, H. and S. JAYARAMAN (2003): A Study on Quality and Stability of Convenience Dehydrated Chicken Pulav. *J. Food Sci. Technol.* 40 (1), 97–101.
9. DEEPA PRAKASH, H.S. PHANINDRA KUMAR, RUDRAMMA, K. RADHAKRISHNA and A.S. BAWA (2003): Factors affecting the quality of Ready to eat Chicken Curry during storage at ambient temperature ($24\pm 2^\circ\text{C}$). Abstr. appeared in 5th International Food Convention (IFCON-2003) CFTRI, Mysore, India, p. 143.
10. GREENWOOD, M.H., E.F.C. COETZEE, B.M. FORD, P. GILL, W.L. HOOPER, S.C.W. MATHEWS, S. PATRICK, J.V.S. PETHEA and R.J.D. SCOTT (1985): The bacteriological quality of selected retail ready to eat food products. I. Meat Patties, sausage rolls, pates faggots and continental sausage. *Environmental Health* 93 (7), 178.
11. KARTHIKEYAN, J. (1997): Application of Hurdle Technology for the Development of Shelf Stable Kheema. M.V.Sc. Thesis submitted to Indian Veterinary Research Institute, Deemed University, Izzatnagar, India.
12. KEETON, J.T. (1983): Effect of fat and NaCl / phosphate levels on the chemical and sensory properties of pork patties. *J. Food Sci.* 48, 787–885.

13. KULKARNI, V.V. and V.K. RAO (2003): Indian Meat Industry – Present Scenario. In: IMSACON on Impact of Globalization on Indian Meat Industry, invited paper, pp 32–39.
14. MALIK, A.H. (1999): Application of Hurdle Technology in the Development of Shelf Stable Buffalo Meat Products. Ph.D. Thesis submitted to Indian Veterinary Research Institute, Deemed University, Izzatnagar, India.
15. MODI, V.K., H.S. VIDYA, K. MALINI and D. NARASIMHA RAO (1997): Application of hurdle technology in the development of chicken products In: Proceedings of National Seminar on Food Preservation by Hurdle Technology & Related Areas, Dec. 29–30, Defence Food Research Laboratory, Mysore India, pp. 110–117.
16. NAGEGOWDA, P., V.K. MODI, H.S. SATHISH, G.C.P. RANGARAO and D. NARASIMHA RAO (2003): Preparation and quality evaluation of retort pouch ready to eat mutton chops: Abstract appeared in souvenir of IFCON-2003 Mysore held during 5–8 Dec., p. 131.
17. PEARSON, D. (1968): Application of chemical methods for the assessment of beef quality. I. General considerations, sampling and the determination of basic components. *J. Sci. Food Agric.* 19, 364–366.
18. QURESHI, S. and S.K. RANJHAN (2003): Indian Meat Industry Perspective: Lead Paper presented in souvenir of IFCON-2003 Mysore held during 5–8 Dec., pp. 179–181.
19. SAKUNDE, D.T. (2004): Studies on production and shelf life of chicken patties using various binders. M.V.Sc. Thesis submitted to Maharashtra Animal & Fishery Sciences University, Nagpur, India.
20. SANTAMARIA, I., T. LIZARRAGA, I. AUTIASARAN and J. BELLO (1992): Characterization of Pamplona chorizo sausages, physico-chemical and sensory studies. *Revista Espanola de Ciencia y Tecnologia de Alimentos* 32 (4), 431 (cited in FSTA. 1992, 24, 5S 108).
21. SINGH, J.N., P.K. SINGH, R.L. NATHY and A. RANJAN (1995): Cost variation and consumption of products from goat meat in Bihar – a Survey report (Abstr.). In: Prospectus of production, processing and marketing of goat meat. REKIB, A., M.K. AGNIHOTRI, U.K. PAL and H. SHANKAR (Eds.). ISSGPU, Avikanagar, Rajasthan, India, pp. 29–30.
22. SINGH, R.P. (2004): Developments in poultry processing with reference to application of rural based technology. Technical abstract appeared in 16th Indian Convention of Food Scientists & Technologists (ICFOST-2004), Mysore, India, 9–10 Dec., pp. 52–53.
23. SNEDECOR, G.W. and W.J. COCHRAN (1989): *Statistical Methods*, 8th edn. Iowa State University Press, Amer., Iowa, USA.
24. SUMITHRA, B. (1999): Development and stabilization of an instant mutton curry by hurdle technology. PGD Dissertation, DFRL, Mysore India.
25. STRANGE, E.D., R.C. BENEDICT, J.C. SMITH and C.E. SWIFT (1977): Evaluation of rapid tests for monitoring alterations in meat quality during storage. I. Intact Meat. *J. Food Prot.* 40, 843–847.
26. ZIAUDDIN, S.K., D.N. RAO, B.S. RAMESH and B.L. AMLA (1993): Physico-chemical characteristics of buffalo meat stored at elevated temperature. *Cheiron* 22 (1), 11.

Authors' addresses

Dr. K.S. Rathod and Dr. R.K. Ambadkar, Department of Livestock Products Technology, Nagpur Veterinary College, Seminary Hills, Nagpur – 440 006 (MS), India, dr_kishorrathod@yahoo.co.in;

Dr. P.N. Zanjad, Professor & Head, Dept of LPT, Veterinary College, Parbhani (MS), India