

บรรณานุกรม

- นางลักษณ์ สุทธิวิเศษ. 2519. คู่มือวิชาเนื้อสัตว์และผลิตภัณฑ์. ภาควิชาวิทยาศาสตร์
การอาหาร คณะเกษตร มหาวิทยาลัยเกษตรศาสตร์. 128 หน้า.
- ไพศาล เหล่าสุวรรณ. 2531. สถิติสำหรับการวิจัยทางการเกษตร. คณะทรัพยากร
ธรรมชาติ มหาวิทยาลัยสงขลานครินทร์. สงขลา.
- ลักขณา รุทพงษ์กรกานต์. 2533. วิทยาศาสตร์และเทคโนโลยีเนื้อสัตว์. ภาควิชา
วิทยาศาสตร์และเทคโนโลยีการอาหาร คณะอุตสาหกรรมเกษตร มหาวิทยาลัย
เชียงใหม่.
- ดีวาพร ศิวเวชช. 2529. วัตถุดิบอาหาร : เล่ม 1. ภาควิชาวิทยาศาสตร์และ
เทคโนโลยีการอาหาร คณะอุตสาหกรรมเกษตร มหาวิทยาลัยเกษตรศาสตร์.
- Akamittath, J.G., Brekke, C.J. and Schanus, E.G. 1990. Lipid
oxidation and color stability in restructured meat system
during frozen storage. J. Food Sci. 55 : 1513-1517.
- Allen, J.C. and Hamiltan, R.J. 1983. Rancidity in foods. Applied
Science publishers. London and New York.
- Alvarez, V.B., Smith, D.M., Morgan, R.G. and Booren, A.M. 1990.
Restructuring of mechanically deboned chicken and nonmeat
binders in a twin-screw extruder. J. Food Sci. 55 : 942-
946.

- Ang, C.Y.W. and Young, L.L. 1989. Factors relating to oxidative stability of cooked broiler breast patties treated with sodium tripolyphosphate. *J. Food Sci.* 54 : 1151-1154.
- A.O.A.C. 1990. Official Methods of Analysis of the Association of Official Analytical Chemists. 14th ed. The Association of Official Analytical Chemists, Inc. Washington, D.C.
- Bernal, V.M., Smajda, C.H., Smith, J.L. and Stanley, D.W. 1987. Interactions in protein/polysaccharide/calcium gels. *J. Food Sci.* 52 : 1121-1127.
- Berry, B.W. 1990. Changes in quality of all-beef and soy-extended patties as influenced by freezing rate, frozen storage temperature, and storage time. *J. Food Sci.* 55 : 893-905.
- Bhattacharya, M., Hanna, M.A. and Mandigo, R.W. 1988. Lipid oxidation in ground beef patties as affected by time-temperature and product packaging parameters. *J. Food Sci.* 53 : 714-717.
- Booren, A.M., Jones, K.W., Mandigo, R.W. and Olson, D.G. 1981 a. Effects of blade tenderization, vacuum mixing, salt addition and mixing time on binding of meat pieces into sectioned and formed beef steaks. *J. Food Sci.* 46 : 1678-1680.

- Booren, A.M., Mandigo, R.W., Olson, D.G. and Jones, K.W. 1981 b. Effect of muscle type and mixing time on sectioned and formed beef steaks. *J. Food Sci.* 46 : 1665-1672.
- Booren, A.M., Mandigo, R.W., Olson, D.G. and Jones, K.W. 1981 c. Vacuum mixing influence on characteristics of sectioned and formed beef steak. *J. Food Sci.* 46 : 1673-1677.
- Brewer, M.S., Mckeith, F.K. and Britt, K. 1992. Fat, soy and carrageenan effects on sensory and physical characteristics of ground beef patties. *J. Food Sci.* 57 : 1051-1055.
- Chen C.M. and Trout G.R. 1991. Color and its stability in restructured beef steaks during frozen storage: effects of various binders. *J. Food Sci.* 56 : 1461-1475.
- Chesney, M.S., Mandigo, R.W. and Campbell, J.F. 1978. Properties of restructured pork products as influenced by meat particle size, temperature and comminution method. *J. Food Sci.* 43 : 1535-1537.
- Choi, Y.I., Kastner, C.L. and Kropf, D.H. 1987 a. Effects of hot boning and various levels of salt and phosphate on protein solubility, functionality, and storage characteristics of preblended pork used in frankfurters. *J. Food Prot.* 50 : 1025-1036.

- Choi, Y.I., Kastner, C.L. and Kropf, D.H. 1987 b. Effects of hot boning and various levels of salt and phosphate on microbial, TBA, and pH values of preblended pork during cooler storage. *J. Food Prot.* 50 : 1037-1043.
- Chu, Y.H., Huffman, D.L., Trout, G.R. and Egbert, W.R. 1987. Color and color stability of frozen restructured beef steaks : Effect of sodiumchloride , tripolyphosphates , nitrogen atmosphere and processing procedures. *J. Food Sci.* 52 : 869-875.
- Clarke, A.D., Means , W.J. and Schmidt, G.R. 1987. Effects of storage time, sodium chloride and sodium tripolyphosphate on yield and microstructure of comminuted beef. *J. Food Sci.* 52 : 854-860.
- Clarke, A.D., Sofos, J.N. and Schmidt, G.R. 1988 a. Effect of algin/calcium binder levels on various characteristics of restructured beef. *J. Food Sci.* 53 : 711-726.
- Clarke, A.D., Sofos, J.N. and Schmidt, G.R. 1988 b. Influence of varying pH and algin/calcium binders on selected physical and sensory characteristics of structured beef. *J. Food Sci.* 53 : 1266-1277.
- Cordray, J.C., Huffman, D.L. and Egbert, W.R. 1989. Restructured pork from hot-processed sow meat : effect of particle size and blend ratio. *J. Food Prot.* 52 : 581-585.

- Dugan, L. 1976. Lipids. In Principle of Food Science. (eds. O.R. Fennema) Marcel Dekker Inc., New York.
- Ensor, S.A., Sofos, J.N. and Schmidt, G.R. 1990. Effects of connective tissue on algin restructured beef. J. Food Sci. 55 : 911-914.
- Farouk, M.M., Price, J.F. and Salih, A.M. 1991. Effect of Fe²⁺, salt, cooking and shredded coffee on thiobarbituric acid (TBA) numbers in ground beef. J. Food Sci. 56 : 172-174.
- Girard, J.P., Culioli, J., Maillard, T., Denoyer, C. and Touraille, C. 1990. Influence of technological parameters on the structure of the batter and the texture of frankfurter type sausages. meat Sci. 27 : 13-28.
- Glicksman, M. 1982. Functional Properties of Hydrocolloids. ch.3. In Food Hydrocolloids. (ed. M. Glicksman) Volume I. CRC Press, Inc., Boca Raton, FL.
- Hamm, R.T. 1960. Biochemistry of meat hydration. Adv. Food Res, 10 : 355. cited by Paterson, B.C., Parrish, Jr., F.C. and Stromer, M.H. 1988. Effects of salt and pyrophosphate on the physical and chemical properties of beef muscle. J. Food Sci. 53 : 1258-1265.

- Harel, S. and Kanner, J. 1985. Muscle membranal lipid peroxidation initiated by H_2O_2 -activated metmyoglobin. *J. Agric. Food Chem.* 33 : 1188-1192.
- Huffman, D.L., Ly, A.M. and Cordray, J.C. 1981. Effect of salt concentration on quality of restructured pork chops. *J. Food Sci.* 46 : 1563-1568.
- Intarapetch, K. 1991. Meat and Poultry Technology: Laboratory material. Department of Agro-Industry, Faculty of Natural Resources, Prince of Songkla University, Songkhla.
- Johnson, R.C., Muller, T.S., Romans, J.R., Costello, W.J. and Jones, K.W. 1990. Effects of algin/calcium and adipic acid concentration on muscle-juncture formation. *J. Food Sci.* 55 : 906-914.
- Jolley, P.D. and Purslor, P.P. 1988. Reformed meat products fundamental concepts and new developments. Food structure its creation and evaluation. Butterworths.
- Kanner, J. and Harel, S. 1985. Initiation of membranal lipid peroxidation activated by metmyoglobin and methemoglobin. *Arch. Biochem. Biophys.* 237 : 314-321.
- Kanner, J., Hazan, B. and Doll, L. 1988. Catalytic "free" iron ions in muscle food. *J. Agric. Food Chem.* 36 : 412-415.

- Knipe, C.L., Olson, D.G. and Rust, R.E. 1988. Effects of inorganic phosphates and sodium hydroxide on the cooked cured color, pH and emulsion stability of reduced- sodium and conventional meat emulsions. *J. Food Sci.* 53 : 1305-1308.
- Kramlich, W.E. 1971. Sausage Products. Ch.11. In *The Science of Meat and Meat Products.* (eds. Price, J.F. and Schweigert, B.S.) pp.499-502. W.H. Freeman and Company, San Francisco.
- Labuza, T.P. 1971. Kinetics of lipid oxidation in foods. *Crit. Rev. Food tech.* 2 : 355-405.
- Lankey, J.W., Mandigo, R.W. and Calkins, C.R. 1986. Effect of salt and phosphate on the texture and color stability of restructured beef steaks. *J. Food Sci.* 51 : 873-875.
- Lazarus, C.R., West, R.L., Oblinger, J.L. and Palmer, A.Z. 1976. Evaluation of a calcium alginate coating and a protective plastic wrapping *J. Food Sci.* 41 : 639-641.
- Lee, C. 1985. Microstructure of meat emulsions in relation to fat stabilization. *Food Microstruc.* 4 : 63. cited by Smith, D.M. 1988. Meat proteins: Functional properties in comminuted meat products. *Food Tech.* 42 : 116-121.

- Liu, M.N., Huffman, D.L., Egbert, W.R., Mccaskey, T.A. and Liu, C.W. 1991. Soy protein and oil effects on chemical, physical and microbial stability of lean ground beef patties. *J. Food Sci.* 56 : 906-912.
- Mann, T.F., Reagan, J.O., Johnson, L.P., Lyon, C.E., Mabry, J.W. and Miller, M.F. 1990. Textural and chemical characteristics of recombined precooked beef roasts as influenced by boning time and salt level. *J. Food Sci.* 55 : 330-333.
- Marriotte, N.G., Phelps, S.K., Costello, C.A. and Graham, P.P. 1987. Restructured pork with texture variation. *J. Food Qual.* 10 : 425-435.
- Means, W.J. and Schmidt, G.R. 1986. Algin/calcium gel as raw and cooked binder in structured beef steaks. *J. Food Sci.* 51 : 60-65.
- Means, W.J., Clarke, A.D., Sofos, J.N. and Schmidt, G.R. 1987. Binding, sensory and storage properties of algin/calcium structured beef steaks. *J. Food Sci.* 52 : 252-262.
- Miller, M.F., David, G.W., Seideman, S.C., Ramsey, C.B. and Rolan, T.L. 1986. Effect of various phosphates on the palatability, appearance and storage traits of flaked and formed restructured beef steaks. *J. Food Sci.* 51 : 1435-1438.

- Paterson, B.C., Parrish, Jr., F.C. and Stromer, M.H. 1988. Effects of salt and pyrophosphate on the physical and chemical properties of beef muscle. *J. Food Sci.* 53 : 1258-1265.
- Pearson, A.M. and Tauber, F.W. 1984. *Processed Meats*. 2nd ed. AVI. Publishing Co., Inc. Westport, CT.
- Rees, D.A. and Welsh, E.J. 1977. Secondary and tertiary structure of polysaccharides by solutions and gels. *Angew. Chem. Int. Ed. Engl.* 16 : 214. cited by Means, W.J. and Schmidt, G.R. 1986. Algin/calcium gel as raw and cooked binder in structured beef steaks. *J. Food Sci.* 51 : 60-65.
- Rice, E.E. 1970. The Nutritional Content and Value of Meat and Meat Products. Ch. 6 . In *The Science of Meat and Meat Products*. 2nd ed. (eds. Price, J.F. and Schweigert, B.S.) W.H. Freeman and Company. San Francisco.
- Rockower, R.K., Deng, J.C., Otwell, W.S. and Cornell, J.A. 1983. Effect of soy flour, soy protein concentrate and sodium alginate on the textural attributes of minced fish patties. *J. Food Sci.* 48 : 1048-1052.
- Rolan, T.L., Davis, G.W., Seideman, S.C., Wheeler, T.L. and Miller, M.F. 1988. Effects of blade tenderization and

proteolytic enzymes on restructured steaks from beef bullock chucks. *J. Food Sci.* 53 : 1062-1110.

Romijn, A., Cuppett, S.L., Zeece, M.G., Parkhurst, A.M. and Lee, M.L. 1991. Impact of soy isolates and specific fractions on rancidity development in cooked, refrigerated beef system. *J. Food Sci.* 56 : 188-190.

Sanderson, G.R. 1981. Polysaccharides in foods. *Food Technol.* 35 : 50-59.

Siegel, D.G. and Schmidt, G.R. 1979. Ionic, pH, and temperature effects on the binding ability of myosin. *J. Food Sci.* 44 : 1686-1689.

Simunovic, J., West, R.L. and Adams, J.P. 1985. Formulation of a pasteurized restructured beef product. *J. Food Sci.* 50 : 693-709.

Stoick, S.M., Gray, J.I., Booren, A.M. and Buckley, D.J. 1991. Oxidative stability of restructured beef steaks processed with oleoresin rosemary, tertiary butylhydroquinone, and sodium tripolyphosphate. *J. Food Sci.* 56 : 597-600.

Stone, H., Sidel, J., Oliver, S., Woolsey, A. and Singleton, R.C. 1974. Sensory evaluation by quantitation descriptive analysis. *Food Technol.* 28 : 24.

- Tarladgis, B.G., Watts, B.M., Younathan, M.T. and Dugan, L., Jr.
1960. A distillation method for the quantitative determination of malonaldehyde in rancid foods. J. Am. Oil Chem. Soc. 37 : 44.
- Tarrant, P.V. 1981. Muscle proteins in meat technology. Ch. 14.
In Food Protein. (eds. Fox, P.F. and Condon, J.J.)
pp. 282-285. Applied Science Publishers, London and New York.
- Tinbergin, B.J. and Olsman, W.J. 1979. Fat cell rupture in a comminuted meat batter as a determinative factor of heat stability. J. Food Sci. 44 : 693. cited by : Smith, D.M.
1988. Meat proteins : Functional properties in comminuted meat products. Food Tech. 42 : 116-121.
- Trout, G.R. 1989. Color and bind strength of restructured pork chops : effect of calcium carbonate and sodium alginate concentration. J. Food Sci. 54 : 1466-1470.
- Trout G.R. and Schmidt, G.R. 1983. Utilization of phosphates in meat products. Proc. Recipr. Meat Conf. 36 : 24. cited by Paterson, B.C., Parrish, Jr., F.C. and Stromer, M.H.
1988. Effects of salt and pyrophosphate on the physical and chemical properties of beef muscle. J. Food Sci. 53 : 1258-1265.

- Trout G.R. and Schmidt, G.R. 1984. Effect of phosphate type and concentration, salt level and method of preparation on binding in restructured beef rolls. *J. Food Sci.* 49 : 687-694.
- Trout G.R. and Schmidt, G.R. 1986. Effect of phosphates on the functional properties of restructured beef rolls : the role of pH, ionic strength and phosphate type. *J. Food Sci.* 51 : 1416-1423.
- Trout, G.R., Chen, C.M. and Dale, s. 1990. Effect of calcium carbonate and sodium alginate on the textural characteristics, color and color stability of restructured pork chops. *J. Food Sci.* 55 : 38-42.
- Wanstedt, K.G., Seideman, L.S., Donnelly, L.S. and Quenzer, N.M. 1981. Sensory attributes of precooked, calcium alginate-coated pork patties. *J. Food Prot.* 44 : 732-735.
- Wheeler, T.L., Seideman, S.C., Davis, G.W. and Rolan, T.L. 1990. Effect of chloride salts and antioxidants on sensory and storage traits of restructured beef steaks. *J. Food Sci.* 55 : 1274-1277.