

High Pressure Processing References - A

Abbasi, S. and Dickinson, E. 2002. High-pressure-induced rheological changes of low-methoxyl pectin plus micellar casein mixtures. *Journal of Agricultural and Food Chemistry* 50: 3559-3565.

Abbasi, S. and Dickinson, E. 2001. Influence of sugars on high-pressure induced gelatin of skim milk dispersions. *Food Hydrocolloids* 15: 315-319.

Abdul Ghani, A.G. and Farid, M.M. 2007. Numerical simulation of solid-liquid food mixture in a high pressure processing unit using computational fluid dynamics. *Journal of Food Engineering* 80: 1031-1042.

Abe, F. 2007. Exploration of the effects of high hydrostatic pressure on microbial growth, physiology and survival: Perspectives from piezophysiology. *Bioscience, Biotechnology, and Biochemistry* 71(10): 2347-2357.

Abe, F., Minegishi, H., Miura, T., Nagahama, T., Usami, R., and Horikoshi, K. 2006. Characterization of cold- and high-pressure-active polygalacturonases from a deep-sea yeast, *Cryptococcus liquefaciens* strain N6. *Bioscience, Biotechnology, and Biochemistry* 70(1): 296-299.

Abe, F. and Iida, H. 2003. Pressure-induced differential regulation of the two tryptophan permeases Tat1 and Tat2 by ubiquitin ligase Rsp5 and its binding proteins, Bul1 and Bul2. *Molecular and Cellular Biology* 23(21): 7566-7584.

Abe, F., Kato, C., and Horikoshi, K. 1999. Pressure-regulated metabolism in microorganisms. *Trends in Microbiology* 7(11): 447-453.

Abe, F. and Horikoshi, K. 1997. Vacuolar acidification in *Saccharomyces cerevisiae* induced by elevated hydrostatic pressure is transient and is mediated by vacuolar H⁺-ATPase. *Extremophiles* 1: 89-93.

Abe, F. and Horikoshi, K. 1995. Hydrostatic pressure promotes the acidification of vacuoles in *Saccharomyces cerevisiae*. *FEMS Microbiology Letters* 130: 307-312.

Adamy, J. 2005. High-pressure process helps keep food bacteria-free. *Wall Street Journal* February 17: B1.

Adegoke, G.O., Iwahashi, H., and Komatsu, Y. 1997. Inhibition of *Saccharomyces cerevisiae* by combination of hydrostatic pressure and monoterpenes. *Journal of Food Science* 62(2): 404-405.

Aertsen, A., de Spiegeleer, P., Vanoirbeek, K., Lavilla, M., and Michiels, C.W. 2005. Induction of oxidative stress by high hydrostatic pressure in *Escherichia coli*. *Applied and Environmental Microbiology* 71(5): 2226-2231.

Aertsen, A., Faster, D., and Michiels, C.W. 2005. Induction of shiga toxin-converting prophage in *Escherichia coli* by high hydrostatic pressure. *Applied and Environmental Microbiology* 71(3): 1155-1162.

Aertsen, A. and Michiels, C.W. 2005. SulA-dependent hypersensitivity to high pressure and hyperfilamentation after high-pressure treatment of *Escherichia coli lon* mutants. *Research in Microbiology* 156: 233-237.

Aertsen, A., Van Opstal, I., Vanmuysen, S.C., Wuytack, E.Y., and Michiels, C.W. 2005. Screening for *Bacillus subtilis* mutants deficient in pressure induced spore germination: identification of *ykvU* as a novel germination gene. *FEMS Microbiology Letters* 243: 385-391.

Aertsen, A., Van Houdt, R., Vanoirbeek, K., and Michiels, C.W. 2004. An SOS response induced by high pressure in *Escherichia coli*. *Journal of Bacteriology* 186(18): 6133-6141.

Aertsen, A., Vanoirbeek, K., de Spiegeleer, P., Sermon, J., Hauben, K., Farewell, A., Nyström, T., and Michiels, C.W. 2004. Heat shock protein-mediated resistance to high hydrostatic pressure in *Escherichia coli*. *Applied and Environmental Microbiology* 70(5): 2660-2666.

Ahmed, J., Ramaswamy, H.S., Ayad, A., Alli, I., and Alvarez, P. 2007. Effect of high-pressure treatment on rheological, thermal and structural changes in Basmati rice flour slurry. *Journal of Cereal Science* 46: 148-156.

Ahmed, J., Ramaswamy, H.S., and Hiremath, N. 2005. The effect of high pressure treatment on rheological characteristics and colour of mango pulp. *International Journal of Food Science and Technology* 40: 885-895.

Ahmed, J., Ramaswamy, H.S., Alli, I., and Ngadi, M. 2003. Effect of high pressure on rheological characteristics of liquid egg. *Lebensmittel-Wissenschaft und-Technologie* 36: 517-524.

Ahn, J., Balasubramaniam, V.M., and Yousef, A.E. 2007. Inactivation kinetics of selected aerobic and anaerobic bacterial spores by pressure-assisted thermal processing. *International Journal of Food Microbiology* 113: 321-329.

Ahromrit, A., Ledwood, D.A., and Niranjana, K. 2007. Kinetics of high pressure facilitated starch gelatinization in Thai glutinous rice. *Journal of Food Engineering* 79: 834-841.

Ahromrit, A., Ledward, D.A., and Niranjana, K. 2006. High pressure induced water uptake characteristics of Thai glutinous rice. *Journal of Food Engineering* 72: 225-233.

Akasaka, K., Tezuka, T., and Yamada, H. 1997. Pressure-induced changes in the folded structure of lysozyme. *Journal of Molecular Biology* 271: 671-678.

Akyol, C., Alpas, H., and Bayindirli, A. 2006. Inactivation of peroxidase and lipoxygenase in carrots, green beans, and green peas by combination of high hydrostatic pressure and mild heat treatment. *European Food Research and Technology* 224: 171-176.

Alden, R.G., Satterlee, J.D., Mintorovitch, J., Constantinidis, I., Ondrias, M.R., and Swanson, B.I. 1989. The effects of high pressure upon ligated and deoxyhemoglobins and myoglobin: An optical spectroscopic study. *Journal of Biological Chemistry* 264(4): 1933-1940.

Aleman, G., Ting, E.Y., Mordre, S., Hawes, A., Walker, M., Farkas, D., and Torres, A. 1996. Pulsed ultra high pressure treatments for pasteurization of pineapple juice. *Journal of Food Science* 61(2): 388-390.

Aleman, G., Farkas, D.F., Torres, A., Wilhelmsen, E., and McIntyre, S. 1994. Ultra-high pressure pasteurization of fresh cut pineapple. *Journal of Food Protection* 57(10): 931-934.

Alpas, H., Alma, L. and Bozoglu, F. 2003. Inactivation of *Alicyclobacillus acidoterrestris* vegetative cells in model system, apple, orange and tomato juices by high hydrostatic pressure. *World Journal of Microbiology & Biotechnology* 19: 619-623.

Alpas, H. and Bozoglu, F. 2000. The combined effect of high hydrostatic pressure, heat and bacteriocins on inactivation of foodborne pathogens in milk and orange juice. *World Journal of Microbiology & Biotechnology* 16(4): 387-392.

Alpas, H., Kalchayanand, N., Bozoglu, F., and Ray, B. 2000. Interactions of high hydrostatic pressure, pressurization temperature and pH on death and injury of pressure-resistant and pressure-sensitive strains of foodborne pathogens. *International Journal of Food Microbiology* 60: 33-42.

Alpas, H., Kalchayanand, N., Bozoglu, F., Sikes, A., Dunne, C.P., and Ray, B. 1999. Variation in resistance to hydrostatic pressure among strains of food-borne pathogens. *Applied and Environmental Microbiology* 65(9): 4248-4251.

Alpas, H., Kalchayanand, N., Bozoglu, F., and Ray, B. 1998. Interaction of pressure, time and temperature of pressurization on viability loss of *Listeria innocua*. *World Journal of Microbiology & Biotechnology* 14: 251-253.

Alt, N., and Schieberle, P. 2005. Model studies on the influence of high hydrostatic pressure on the formation of glycosylated arginine modifications at elevated temperatures. *Journal of Agricultural and Food Chemistry* 53: 5789-5797.

Altuner, E.M., Alpas, H., Erdem, Y.K., and Bozoglu, F. 2006. Effect of high hydrostatic pressure on physicochemical and biochemical properties of milk. *European Food Research and Technology* 222: 392-396.

Alvarez, P.A., Ramaswamy, H.S., and Ismail, A.A. 2008. High pressure gelation of soy proteins: Effect of concentration, pH and additives. *Journal of Food Engineering* 88: 331-340.

Alvarez, P.A., Ramaswamy, H.S., and Ismail, A.A. 2007. Effect of high-pressure treatment on the electrospray ionization mass spectrometry (ESI-MS) profiles of whey proteins. *International Dairy Journal* 17: 881-888.

Amanatidou, A., Schluter, O., Lemkau, K., Gorris, L.G.M., Smid, E.J., and Knorr, D. 2000. Effect of combined application of high pressure treatment and modified atmospheres on the shelf life of fresh Atlantic salmon. *Innovative Food Science & Emerging Technologies* 1: 87-98.

Ananta, E., Heinz, V., and Knorr, D. 2004. Assessment of high pressure induced damage on *Lactobacillus rhamnosus* GG by flow cytometry. *Food Microbiology* 21: 567-577.

Ananta, E., Heinz, V., Schlüter, O., and Knorr, D. 2001. Kinetic studies on high pressure inactivation of *Bacillus stearothermophilus* spores suspended in food matrices. *Innovative Food Science & Emerging Technologies* 2: 261-272.

Ananth, V., Dickson, J., Olson, D., and Murano, E. 1998. Shelf life extension, safety, and quality of fresh pork loin treated with high hydrostatic pressure. *Journal of Food Protection* 61(12): 1649-1656.

Ancos, B., Gonzalez, E., and Cano, M.P. 2000. Effect of high-pressure treatment on the carotenoid composition and the radical scavenging activity of persimmon fruit purees. *Journal of Agricultural and Food Chemistry* 48: 3542-3548.

Andrássy, É., Farkas, J., Seregély, Zs., Dalmadi, I., Tuboly, E., and Lebovics, V. 2006. Changes of hen eggs and their components caused by non-thermal pasteurizing treatments II. Some non-microbiological effects of gamma irradiation or hydrostatic pressure processing on liquid egg white and egg yolk. *Acta Alimentaria* 35(3): 305-318.

Andres, A.I., Adamsen, C.E., Moller, J.K.S., Ruiz, J., and Skibsted, L.H. 2006. High-pressure treatment of dry-cured Iberian ham. Effect on colour and oxidative stability during chill storage packed in modified atmosphere. *European Food Research and Technology* 222: 486-491.

Anema, S.G. 2008. Heat and/or high-pressure treatment of skim milk: Changes to the casein micelle size, whey proteins and the acid gelation properties of the milk. *International Journal of Dairy Technology* 61(3): 245-252.

- Anema, S.G., Lowe, E.K., and Stockmann, R. 2005. Particle size changes and casein solubilisation in high-pressure-treated skim milk. *Food Hydrocolloids* 19: 257-267.
- Anese, M., Nocoli, M., Dall'aglio, G., and Lerici, C. 1995. Effects of high pressure treatments on peroxidase and polyphenoloxidase activities. *Journal of Food Biochemistry* 18: 285-293.
- Angsupanich, K. and Ledward, D.A. 1998. High pressure treatment effects on cod (*Gadus morhua*) muscle. *Journal of Food Chemistry* 63(1): 39-50.
- Anstine, T.T. 2003. High-pressure processing for safe, quality foods. *Cereal Foods World* 48(1):5,7-8.
- Anton, M., Chapleau, N., Beaumal, V., Delépine, S., and de Lamballerie-Anton, M. 2001. Effect of high-pressure treatment on rheology of oil-in-water emulsions prepared with hen egg yolk. *Innovative Food Science & Emerging Technologies* 2: 9-21.
- Aouzelleg, A., Bull, L.-A., Price, N.C., and Kelly, S.M. 2004. Molecular studies of pressure/temperature-induced structural changes in bovine β -lactoglobulin. *Journal of the Science of Food and Agriculture* 84: 398-404.
- Aparicio, C., Guignon, B., Rodríguez-Antón, L.M., and Sanz, P.D. 2007. Volumetric properties of sunflower methyl ester oil at high pressure. *Journal of Agricultural and Food Chemistry* 55: 7394-7398.
- Arayo, X-I.T., Hendrickx, M., Verlinden, B.E., Van Buggenhout, S., Smale, N.J., Stewart, C., and Mawson, A.J. 2007. Understanding texture changes of high pressure processed fresh carrots: A microstructural and biochemical approach. *Journal of Food Engineering* 80: 873-884.
- Ardia, A., Knorr, D., Ferrari, G., and Heinz, V. 2003. Kinetic studies on combined high-pressure and temperature inactivation of *Alicyclobacillus acidoterrestris* spores in orange juice. *Applied Biotechnology, Food Science and Policy* 1(3): 169-173.
- Ariefdjohan, M.W., Nelson, P.E., Singh, R.K., Bhunia, A.K., Balasubramaniam, V.M., and Singh, N. 2004. Efficacy of high hydrostatic pressure treatment in reducing *Escherichia coli* and *Listeria monocytogenes* in alfalfa seeds. *Journal of Food Science* 69(5): M117-M120.
- Arora, A., Chism, G.W., and Shellhammer, T.H. 2003. Rheology and stability of acidified food emulsions treated with high pressure. *Journal of Agricultural and Food Chemistry* 51: 2591-2596.
- Arqués, J.L., Garde, S., Fernández-García, E., Gaya, P., and Nuñez, M. 2007. Volatile

compounds, odor, and aroma of La Serene cheese high-pressure treated at two different stages of ripening. *Journal of Dairy Science* 90(8): 3627-3639.

Arques, J.L., Garde, S., Gaya, P., Medina, M., and Nunez, M. 2006. Short communication: Inactivation of microbial contaminants in raw milk la serena cheese by high-pressure treatments. *Journal of Dairy Science* 89: 888-891.

Arques, J.L., Rodriguez, E., Gaya, P., Medina, M., Guamis, B., and Nunez, M. 2005. Inactivation of *Staphylococcus aureus* in raw milk cheese by combinations of high-pressure treatments and bacteriocin-producing lactic acid bacteria. *Journal of Applied Microbiology* 98: 254-260.

Arques, J.L., Rodriguez, E., Gaya, P., Medina, M., and Nunez, M. 2005. Effect of combinations of high-pressure treatment and bacteriocin-producing lactic acid bacteria on the survival of *Listeria monocytogenes* in raw milk cheese. *International Dairy Journal* 15: 893-900.

Arroyo, G., Sanz, P.D., and Prestamo, G. 1999. Response to high-pressure, low-temperature treatment in vegetables: determination of survival rates of microbial populations using flow cytometry and detection of peroxidase activity using confocal microscopy. *Journal of Applied Microbiology* 86: 544-556.

Arroyo, G., Sanz, P.D., and Prestamo, G. 1997. Effect of high pressure on the reduction of microbial populations in vegetables. *Journal of Applied Microbiology* 82: 735-742.

Asaka, M. and Hayashi, R. 1991. Activation of polyphenoloxidase in pear fruits by high pressure treatment. *Agricultural and Biological Chemistry* 55(9): 2439-2440.

Ashie, I.N.A. and Simpson, B.K. 1996. Application of high hydrostatic pressure to control enzyme related fresh seafood texture deterioration. *Food Research International* 29(5-6): 569-575.

Ashie, I.N.A. and Simpson, B.K. 1995. Effects of hydrostatic pressure on alpha-macroglobulin and selected proteases. *Journal of Food Biochemistry* 18: 377-391.

Ávila, M., Calzada, J., Garde, S., and Nuñez, M. 2007. Effect of a bacteriocin-producing *Lactococcus lactis* strain and high-pressure treatment on the esterase activity and free fatty acids in Hispánico cheese. *International Dairy Journal* 17: 1415-1423.

Avila, M., Garde, S., Fernandez-Garcia, E., Medina, M., and Nunez, M. 2006. Effect of high-pressure treatment and a bacteriocin-producing lactic culture on the odor and aroma of Hispánico cheese: correlation of volatile compounds and sensory analysis. *Journal of Agricultural and Food Chemistry* 54: 382-389.

Ávila, M., Garde, S., Gaya, P., Medina, M., and Nuñez, M. 2006. Effect of high-pressure treatment and a bacteriocin-producing lactic culture on the proteolysis, texture, and taste of Hispánico cheese. *Journal of Dairy Science* 89(8): 2882-2893.

Avsaroglu, M.D., Buzrul, S., Alpas, H., Akcelik, M. and Bozoglu, F. 2006. Use of the Weibull model for lactococcal bacteriophage inactivation by high hydrostatic pressure. *International Food Journal of Microbiology* 108: 78-83.

Aymerich, T., Jofre, A., Garriga, M. and Hugas, M. 2005. Inhibition of *Listeria monocytogenes* and *Salmonella* by natural antimicrobials and high hydrostatic pressure in sliced cooked ham. *Journal of Food Protection* 68(1): 173-177