

REFERENCIAS

- [1] N. Ramírez, V. Ofelia, A. Henao, M. C. Manuel, J. Cerón, and L. Guillermo, "Factores asociados a mastitis en vacas de la microcuenca lechera del altiplano norte de," *Rev. Med. Vet. (Bogotá)*, vol. 22, pp. 31 – 42, 2011.
- [2] S. Mcdougall, K. I. Parker, C. Heuer, and C. W. R. Compton, "A review of prevention and control of heifer mastitis via non-antibiotic strategies," *Vet. Microbiol.*, vol. 134, pp. 177–185, 2009.
- [3] R. M. Akers and S. C. Nickerson, "Mastitis and its Impact on Structure and Function in the Ruminant Mammary Gland," *J. Mammary Gland Biol. Neoplasia*, vol. 16, no. 4, pp. 275 – 289, 2011.
- [4] a B. Wyder, R. Boss, J. Naskova, T. Kaufmann, a Steiner, and H. U. Graber, "Streptococcus spp. and related bacteria: their identification and their pathogenic potential for chronic mastitis - a molecular approach.," *Res. Vet. Sci.*, vol. 91, no. 3, pp. 349–57, Dec. 2011.
- [5] H. Ericsson Unnerstad, a. Lindberg, K. Persson Waller, T. Ekman, K. Artursson, M. Nilsson-Öst, and B. Bengtsson, "Microbial aetiology of acute clinical mastitis and agent-specific risk factors," *Vet. Microbiol.*, vol. 137, no. 1–2, pp. 90–97, May 2009.
- [6] F. L. O. L. Zuñiga Arce. Ismael, Polanía Pardo. Esperanza, *Situación en Colombia de enfermedades bovinas no sujetas al control oficial*, FEDEGAN. Bogotá. Colombia.: FEDEGAN, 2010, pp. 1 – 118.
- [7] C. Pinzón-Sánchez, V. E. Cabrera, and P. L. Ruegg, "Decision tree analysis of treatment strategies for mild and moderate cases of clinical mastitis occurring in early lactation.," *J. Dairy Sci.*, vol. 94, no. 4, pp. 1873–92, Apr. 2011.
- [8] B. Bengtsson, H. E. Unnerstad, T. Ekman, K. Artursson, M. Nilsson-Ost, and K. P. Waller, "Antimicrobial susceptibility of udder pathogens from cases of acute clinical mastitis in dairy cows.," *Vet. Microbiol.*, vol. 136, no. 1–2, pp. 142–9, Apr. 2009.
- [9] M. de Pinho Manzi, D. B. Nóbrega, P. Y. Faccioli, M. Z. Troncarelli, B. D. Menozzi, and H. Langoni, "Relationship between teat-end condition, udder cleanliness and bovine subclinical mastitis.," *Res. Vet. Sci.*, vol. 93, no. 1, pp. 430–4, Aug. 2012.
- [10] G. H. Lim, K. E. Leslie, D. F. Kelton, T. F. Duffield, L. L. Timms, and R. T. Dingwell, "Adherence and efficacy of an external teat sealant to prevent new intramammary infections in the dry period.," *J. Dairy Sci.*, vol. 90, no. 3, pp. 1289–300, Mar. 2007.
- [11] C. Foret, H. Agu, and P. Janowicz, "Efficacy of Two Barrier Iodine Teat Dips under Natural Exposure Conditions," *J. Dairy Sci.*, vol. 89, no. 6, pp. 2279–2285, 2006.
- [12] M. L. Varella Coelho, J. Dos Santos Nascimento, P. C. Fagundes, D. J. Madureira, S. S. De Oliveira, M. A. Vasconcelos de Paiva Brito, and M. D. C. De Freire Bastos, "Activity of staphylococcal bacteriocins against *Staphylococcus aureus* and

Streptococcus agalactiae involved in bovine mastitis.," *Res. Microbiol.*, vol. 158, no. 7, pp. 625–30, Sep. 2007.

- [13] M. C. Espeche, M. C. Otero, F. Sesma, and M. E. F. Nader-Macias, "Screening of surface properties and antagonistic substances production by lactic acid bacteria isolated from the mammary gland of healthy and mastitic cows.," *Vet. Microbiol.*, vol. 135, no. 3–4, pp. 346–57, Mar. 2009.
- [14] L. S. Cock, L. Johana, V. Hernández, and R. Campos, "Cinética de fermentación y acción antimicrobiana de *Weissella confusa* contra *Staphylococcus aureus* y *Streptococcus agalactiae* Kinetic of fermentation and antimicrobial activity of *Weissella confusa* against *Staphylococcus aureus* and *Streptococcus agalactiae*," *Rev. Fac. Ing. Univ. Antioquia*, vol. 55, pp. 55–65, 2010.
- [15] N. Romano, M. J. Tavera-Quiroz, N. Bertola, P. Mobili, A. Pinotti, and A. Gómez-Zavaglia, "Edible methylcellulose-based films containing fructo-oligosaccharides as vehicles for lactic acid bacteria," *Food Res. Int.*, vol. 64, pp. 560–566, Oct. 2014.
- [16] M. K. Tripathi and S. K. Giri, "Probiotic functional foods: Survival of probiotics during processing and storage," *J. Funct. Foods*, vol. 9, pp. 225–241, Jul. 2014.
- [17] L. Czaplewski, R. Bax, M. Clokie, M. Dawson, H. Fairhead, V. a Fischetti, S. Foster, B. F. Gilmore, R. E. W. Hancock, D. Harper, I. R. Henderson, K. Hilpert, B. V Jones, A. Kadioglu, D. Knowles, S. Ólafsdóttir, D. Payne, S. Projan, S. Shaunak, J. Silverman, C. M. Thomas, T. J. Trust, P. Warn, and J. H. Rex, "Alternatives to antibiotics-a pipeline portfolio review.," *Lancet. Infect. Dis.*, vol. 16, no. 2, pp. 239–51, Feb. 2016.
- [18] L. Serna-Cock and O. V. Pabón-Rodríguez, "Development of a Teat Bio-sealant and Evaluation of its Technological and Functional Properties.," *Probiotics Antimicrob. Proteins*, vol. 8, no. 2, pp. 111–9, Jun. 2016.
- [19] K. W. Lee, J. Y. Park, H. R. Jeong, H. J. Heo, N. S. Han, and J. H. Kim, "Probiotic properties of *Weissella* strains isolated from human faeces.," *Anaerobe*, vol. 18, no. 1, pp. 96–102, Feb. 2012.
- [20] A. S. Carvalho, J. Silva, P. Ho, P. Teixeira, F. X. Malcata, and P. Gibbs, "Relevant factors for the preparation of freeze-dried lactic acid bacteria," *Int. Dairy J.*, vol. 14, no. 10, pp. 835–847, Oct. 2004.
- [21] P. Kanmani, R. Satish Kumar, N. Yuvaraj, K. a. Paari, V. Pattukumar, and V. Arul, "Effect of cryopreservation and microencapsulation of lactic acid bacterium *Enterococcus faecium* MC13 for long-term storage," *Biochem. Eng. J.*, vol. 58–59, pp. 140–147, Dec. 2011.
- [22] C. Schwab, R. Vogel, and M. G. Gänzle, "Influence of oligosaccharides on the viability and membrane properties of *Lactobacillus reuteri* TMW1.106 during freeze-drying.," *Cryobiology*, vol. 55, no. 2, pp. 108–14, Oct. 2007.
- [23] Z. Hubálek, "Protectants used in the cryopreservation of microorganisms," *Cryobiology*, vol. 46, no. 3, pp. 205–229, Jun. 2003.

- [24] J. Blajman, C. Gaziano, M. V. Zbrun, L. Soto, D. Astesana, A. Berisvil, A. R. Scharpen, M. Signorini, and L. Frizzo, "In vitro and in vivo screening of native lactic acid bacteria toward their selection as a probiotic in broiler chickens.," *Res. Vet. Sci.*, vol. 101, pp. 50–6, Aug. 2015.
- [25] D. Ren, C. Li, Y. Qin, R. Yin, X. Li, M. Tian, S. Du, H. Guo, C. Liu, N. Zhu, D. Sun, Y. Li, and N. Jin, "Inhibition of *Staphylococcus aureus* adherence to Caco-2 cells by lactobacilli and cell surface properties that influence attachment.," *Anaerobe*, vol. 18, no. 5, pp. 508–15, Oct. 2012.
- [26] O. Pringsulaka, K. Rueangyotchanthana, N. Suwannasai, R. Watanapokasin, P. Amnueysit, S. Sunthornthummas, S. Sukkhum, S. Sarawaneeyaruk, and a. Rangsiruji, "In vitro screening of lactic acid bacteria for multi-strain probiotics," *Livest. Sci.*, vol. 174, pp. 66–73, Apr. 2015.
- [27] V. Fusco, G. M. Quero, G. Stea, M. Morea, and A. Visconti, "Novel PCR-based identification of *Weissella confusa* using an AFLP-derived marker," *Int. J. Food Microbiol.*, vol. 145, no. 2–3, pp. 437–443, Feb. 2011.
- [28] S. Shukla and A. Goyal, "16S rRNA-Based Identification of a Glucan-Hyperproducing *Weissella confusa*," *Enzyme Res.*, vol. 2011, p. 250842, Jan. 2011.
- [29] R. Serna-cock, Liliana; Valencia, Leidy Johana; Campos-Gaona, "Bacterias acido lacticas con actividad antimicrobiana contra patogenos causantes de mastitis bovina," *Biotechnol. en el Sect. Agropecu. y Agroindustrial*, vol. 9, no. 1, pp. 97 –104, 2011.
- [30] L. S. Cock, C. Elena, and E. Valencia, "Actividad antimicrobiana de *Weissella confusa* y sus metabolitos frente a *Escherichia coli* y *Klebsiella pneumoniae* Antimicrobial activity of *Weissella confusa* and its metabolites against *Escherichia coli* and *Klebsiella pneumoniae*," *Rev. Colomb. Biotechnol.*, vol. XV, no. 2, pp. 63–69, 2013.
- [31] Y. Ni, D. Turner, K. M. Yates, and I. Tizard, "Isolation and characterization of structural components of Aloe vera L. leaf pulp.," *Int. Immunopharmacol.*, vol. 4, no. 14, pp. 1745–55, Dec. 2004.
- [32] P. Kanmani and S. T. Lim, "Development and characterization of novel probiotic-residing pullulan/starch edible films.," *Food Chem.*, vol. 141, no. 2, pp. 1041–9, Nov. 2013.
- [33] P. Darjani, M. Hosseini Nezhad, R. Kadkhodae, and E. Milani, "Influence of prebiotic and coating materials on morphology and survival of a probiotic strain of *Lactobacillus casei* exposed to simulated gastrointestinal conditions," *LWT - Food Sci. Technol.*, vol. 73, pp. 162–167, Nov. 2016.
- [34] W. Sin, T. Yi, and K. Hadinoto, "LWT - Food Science and Technology Effects of adding resistant and waxy starches on cell density and survival of encapsulated bio film of *Lactobacillus rhamnosus* GG probiotics," *Food Science Technol.*, vol. 69, pp. 497–505, 2016.

- [35] K. Fija, D. Peitler, and A. Zywicka, "LWT - Food Science and Technology Survival of probiotic lactic acid bacteria immobilized in different forms of bacterial cellulose in simulated gastric juices and bile salt solution," *Food Sci. Technol.*, vol. 68, pp. 322–328, 2016.
- [36] L. Sánchez-gonzález, J. Ivan, Q. Saavedra, and A. Chiralt, "Antilisterial and physical properties of biopolymer films containing lactic acid bacteria," *Food Control*, vol. 35, pp. 200–206, 2014.
- [37] B. M. Corcoran, R. P. Ross, G. F. Fitzgerald, and C. Stanton, "Comparative survival of probiotic lactobacilli spray-dried in the presence of prebiotic substances," *J. Appl. Microbiol.*, vol. 96, no. 5, pp. 1024–39, Jan. 2004.
- [38] S. Khem, M. W. Woo, D. M. Small, X. D. Chen, and B. K. May, "Agent selection and protective effects during single droplet drying of bacteria," *Food Chem.*, vol. 166, pp. 206–14, Jan. 2015.
- [39] N. Fu and X. D. Chen, "Towards a maximal cell survival in convective thermal drying processes," *Food Res. Int.*, vol. 44, no. 5, pp. 1127–1149, Jun. 2011.
- [40] M. Vlacha, A. Giannakas, P. Katapodis, H. Stamatis, A. Ladavos, and N. Barkoula, "Food Hydrocolloids On the efficiency of oleic acid as plasticizer of chitosan / clay nanocomposites and its role on thermo-mechanical , barrier and antimicrobial properties e Comparison with glycerol," *Food Hydrocoll.*, vol. 57, pp. 10–19, 2016.
- [41] P. Nagar, I. Chauhan, and M. Yasir, "Insights into Polymers : Film Formers in Mouth Dissolving Films," *Drug Invent. Today*, vol. 3, no. 12, pp. 280–289, 2011.
- [42] V. D. Prajapati, G. K. Jani, and S. M. Khanda, "Pullulan: an exopolysaccharide and its various applications," *Carbohydr. Polym.*, vol. 95, no. 1, pp. 540–9, Jun. 2013.
- [43] M. L. Jiménez-Pranteda, D. Poncelet, M. E. Náder-Macías, A. Arcos, M. Aguilera, M. Monteoliva-Sánchez, and A. Ramos-Cormenzana, "Stability of lactobacilli encapsulated in various microbial polymers," *J. Biosci. Bioeng.*, vol. 113, no. 2, pp. 179–84, Feb. 2012.
- [44] L. Serna-Cock, C. E. Enríquez-Valencia, E. M. Jiménez-Obando, and R. Campos-Gaona, "Effects of fermentation substrates and conservation methods on the viability and antimicrobial activity of *Weissella confusa* and its metabolites," *Electron. J. Biotechnol.*, vol. 15, no. 3, May 2012.
- [45] S. K. Klee, M. Farwick, and P. Lersch, "Triggered release of sensitive active ingredients upon response to the skin's natural pH," *Colloids Surfaces A Physicochem. Eng. Asp.*, vol. 338, no. 1–3, pp. 162–166, Apr. 2009.