



DAFTAR PUSTAKA

- Ahn, Y. T., Kim, G. B., Lim, K. S., Baek, Y. J., & Kim, H. U. 2003. Deconjugation of bile salts by *L. Acidophilus* isolates. *International Dairy Journal*. 13(4), 303–311.
- Allain, T., S. Chaouch., M. Thomas., I. Valee., A.G. Buret., P.Langella.,P. Grellier., B. Polack., L.G.B. Humaran dan I. Florent. 2018. Bile Salt *Hydrolases* from the probiotic strain *L. johnsonii* La1 Mediate Anti-Giardial Activity In vitro and in vivo. *Front Microbiology*. 8: 2707
- Al-Saleh, A. A., A. A. M. Metwalli., dan H. M. Abu-Tarboush. 2006. Bile salts and acil tolerance and cholesterol removal from media by some lactic acid bacteria and Bifidobacteria. *Journal Saudi Social Food Nutrition*. 1(1): 1-17.
- Begley, M., Hill, C. dan Gahan, C. G. M. 2006. Bile salt *hydrolase* activity in probiotics. *Applied and Environmental Microbiology*. 72(3): 1729-1738.
- Boyer J. L. 2013. Bile formation and secretion. *Comprehensive Physiology*. 3(3): 1035-1078.
- Buck., L. M., and S. E. Gilliland. 1994. Comparisons of freshly isolated strains of *L. acidophilus* of human intestinal origin for ability to assimilate cholesterol during growth. *Journal Dairy Science*. 77: 2925-2933.
- Gilliland, S.E., Speck, M.L., 1977. Deconjugation of bile acids by intestinal lactobacilli. *Applied Environmental Microbiology*. 3: 15–18.
- Gilliland, S. E., C. R. Nelson dan C. Maxwell. 1985. Assimilation cholesterol by *L. acidophilus*. *Applied Environmental Microbiology*. 33(1):15-18.
- Guyton, A.C. dan Hall, J.E., 2006. *Textbook of Medical Physiology*. 11th ed. Philadelphia. USA: Elsevier Saunders.
- Houmayuni, A., M.R. Ehsani, A. Azizi, A.H. Razavi, dan M.S. Yarmand. 2008. Growth and Survival of Some Probiotic Strains in Simulated Ice Cream Science. *Journal Applied Science*. 8: 379-382.
- Kaplan, H dan R.W. Hutkins. 2000. "Fermentation of Fructooligosaccharides by Lactic Acid Bacteria and Bifidobacteria". *Applied Environmental Microbiology*. 66(6):2682-2684.
- Kimoto, H., S. Ohmomo and T. Okamoto. 2002. Cholesterol removal from media by *Lactococci*. *Journal Dairy Science*. 85: 3182-3188.
- Kleerebezem, M. dan J Hugenholtz. 2003. Methabolic Pathway Engineering in Lactic Acid Bacteria. *Current Opinion Biotechnology*.



14: 232-237.

- Kwiterovich. 2000. The metabolic pathways of high-density lipoprotein, low-density lipoprotein, and triglycerides. *Am J Cardiol.* 86: 5-10.
- Liong, M. T., dan N. P. Shah. 2005. Acid and bile tolerance and the cholesterol removal ability of *Bifidobacteria* strains. *Bioscience Microflora.* 24(1): 1-10.
- Lye, H.S., G. Raul., and M.T. Liong. 2010. Removal of cholesterol by lactobacilli via incorporation and conversion to coprostanol. *Journal Dairy Science.* 93: 1383-1392.
- Ma, Hongbao dan K. J. Shieh. 2006. Cholesterol and human health. *The Journal of American Science.* 2(1): 46-50.
- Maier, R.,M., I.L. Pepper., C.P. Gerba. 2008. *Environmental Microbiology Second Edition.* Academic Press. 3 (1): 37-54.
- Manson, J.E., H Tosteson, dan P.M. Ridcker. 1992. The primary prevention of myocardial infarction. *New England Journal of Medicine.* 32: 1406-1416.
- Maryati, Y., L. Nuraida dan R. D. Hariyadi. 2016. Kajian isolate bakteri asam laktat dalam menurunkan kolesterol secara in vitro dengan keberadaan oligosakarida. *Agritechnology.* 36(2): 196-205.
- Noh, D.O., S.H. Kim., and S.E. Gilliland. 1997. Incorporation of cholesterol into the cellular membrane of *L. acidophilus* ATCC 43121. *Journal Dairy Science.* 80(12): 3107-3113.
- Noriega, L., Cuevas, I., Margolles, A., de los Reyes-Gavilan, C.G., 2006. Deconjugation and bile salts *hydrolase* activity by *Bifidobacterium* strains with acquired resistance to bile. *International Dairy Journal.* 16: 850– 855.
- Nuraida, L., S. Winarti., Hana dan E. Prangdimurti. 2011. Evaluasi *in vitro* terhadap kemampuan isolate bakteri asam laktat asal air susu ibu untuk mengasimilasi kolesterol dan mendekongugasi *bile salt*. *Jurnal Teknologi Industri Pangan.* 22(1): 46-52.
- Ooi, L. G. and M. T. Liong. 2010. Cholesterol-lowering effects of probiotics and prebiotics: a review of in vivo and in vitro findings. *International Journal of Molecular Sciences.* 11: 2499-2522.
- Pereira, I. A., and G. R. Gibson. 2002. Cholesterol assimilation by lactic acid bacteria and bifidobacteria isolated from the human gut. *Applied Environmental Microbiology.* 68(9): 4689-4693.
- Playne, M.J. 1999. Classification and Identification of Probiotic Bacteria Strains. *Probiotica.* 7: 1-5.



- Ray, B. 2003. *Fundamental Food Microbiology*. New York. Third edition. CRC Press LLC.
- Shehata, M. G., El Sohaimy, S. A., El-Sahn, M. A., dan Youssef, M. M. 2016. Screening of isolated potential probiotic lactic acid bacteria for cholesterol lowering property and bile salt *hydrolase* activity. *Annals of Agricultural Sciences*. 61(1): 6575.
- Shehata, M. G., El-Sahn, M. A., El Sohaimy, S. A., dan Youssef, M. M. 2019. In vitro assesment of hypocholesterolemic activity of *Lactococcus lactis* subsp. *lactis*. *Buletin of the National Research Centre*. 43:60.
- Sheperd J. 2001. The role of the exogenous pathway in hypercholesterolaemia. *European Heart Journal Supplements*. 3: 2-5.
- Soeharto, I. 2004. *Penyakit Jantung Koroner dan Serangan Jantung*. Gramedia Pustaka Utama. Jakarta. pp: 36-38.
- Sunaryanto, R., Martius, E. and Marwoto, B. 2014. Uji Kemampuan *L. Casei* sebagai Agensia Probiotik. *Jurnal Bioteknologi dan Biosains Indonesia*. 1(1): 9.
- Tahri, K., J. P. Grill and F. Schneider. 1997. Involvement of trihydroxyconjugated bile salts in cholesterol assimilation by Bifidobacteria. *Current Microbiology*. 34: 79-48.
- Taranto, M.P., M.L.F. Murga., G. Lorca., and G.F.D. Valdez. 2003. Bile salts and cholesterol induce changes in the lipid cell membrane of *L. reuteri*. *Journal Applied Microbiology*. 95(1): 86-91.
- Triana E., E. Yulianto dan N. Nurhidayat. 2006. Uji viabilitas *L. sp.* mar8 terenkapsulasi. *Biodiversitas*. 7(2): 114-117.
- Usman and A. Hosono. 1999. Bile tolerance, taurocholate deconjugation, and binding of cholesterol by *L. gasseri* strains. *Milchwissenschaft*. 54(9): 495-498.
- Wang, C.S., C.K. Chang., S.H.Chan., J.S. Shieh., C.K, Chiu., dan P.D. Duh. 2014. Effects of lactic acid bacteria isolated from fermented mustard on lowering cholesterol. *Asian Pacific Journal Of Tropical Biomedicine*. 4(7): 523-528.
- WHO. 2017. Cardiovascular diseases (CVDs). World Health Organization. [https://www.who.int/en/news-room/factsheets/detail/cardiovascular-diseases-\(cvds\)](https://www.who.int/en/news-room/factsheets/detail/cardiovascular-diseases-(cvds)) Diakses pada 14 Oktober 2019.
- Widodo., Indratiningsih., Widyantoro dan P. A. Pertiwi. 2012. Kemampuan asimilasi kolesterol tiga strain *L. acidophilus* dalam medium cair berkolesterol. *Biota*. 17(1): 21-28.



- Widodo., N. S. Anindita., T. T. Taufiq dan T. D. Wahyuningsih. 2014. Evaluation of two *L.* strains as probiotics with emphasis in utilizing prebiotic inulin as energy source. *International Research Journal of Microbiology*. 5(3): 33-40.
- Widodo. 2017. *Bakteri Asam Laktat Strain Lokal*. Gadjah Mada University Press. Yogyakarta.
- Yates , G. T. , dan T.Smotzer. 2007. On the lag phase and initial decline of microbial growth curves . *Journal Theoreties Biology*. 244 , 511 – 517.
- Yuniastuti, A. 2003. Pengaruh Pemberian Susu Fermentasi *L. casei* strain Shirota terhadap Perubahan kadar Fraksi Lipid Serum Tikus Hiperkolesterolemia. Tesis. Program Studi Ilmu Biomedik. Program Pascasarjana Universitas Diponegoro. Semarang.
- Yuniastuti, A. 2015. *Buku Monograf Probiotik Dalam Perspektif Kesehatan*. UNNES Press. Semarang.
- Ziarno, M. 2007. The influence of cholesterol and biomass concentration on the uptake of cholesterol by *L.* from MRS broth. *Acta Science Polonarium*. 6(2):29-40.
- Ziarno, M., E. Sekul., and A.A. Lafraya. 2007. Cholesterol assimilation by commercial yoghurt starter cultures. *Acta Science Polonarium*. 6(1): 83-94.