



## BAB VI

### DAFTAR PUSTAKA

- Anonim. 2020. <https://www.microbiologiaitalia.it/terreni-di-coltura/macconkey-agar/>
- Arp, L.H., 1989, Colibacillosis dalam *A Laboratory Manual for the Isolation and Identification of Avian Pathogens*, diedit oleh Purchase, H.G., Arp, L.H., Domermuth, C.H. dan Pearson, J.E., Kendall/Hunt Publishing Company, 12-13
- Badan Standardisasi Nasional. 2009. SNI 7388: 2009 tentang Batas Maksimum Cemaran Mikroba dalam Pangan. *Badan Standardisasi Nasional. Jakarta.*:17.
- Bajkacz S, Felis E, Kycia-Słocka E, Harnisz M, Korzeniewska E. 2020. Development of a new SLE-SPE-HPLC-MS/MS method for the determination of selected antibiotics and their transformation products in anthropogenically altered solid environmental matrices. *Sci. Total Environ.* 726:138071.doi:10.1016/j.scitotenv.2020.138071.
- Balasubramanian S, Panigrahi S, Logue CM, Doetkott C, Marchello M, Sherwood JS. 2008. Independent component analysis-processed electronic nose data for predicting *Salmonella typhimurium* populations in contaminated beef. *Food Control.* 19(3):236–246.doi:10.1016/j.foodcont.2007.03.007.
- Bertsimas D, Tsitsiklis J. 1993. Simulated Annealing. *Stat Sci.* 8(1):15–51.doi:10.1214/ss/1177011077.
- Bhalla N, Jolly P, Formisano N, Estrela P. 2016. Introduction to biosensors. *Essays Biochem.* 60(1):1–8.doi:10.1042/EBC20150001.
- Cetó X, Gutiérrez-capitán M, Calvo D, Valle M. 2013. Beer classification by means of a potentiometric electronic tongue. *J. Foodchem.* 141:2533–2540.doi:10.1016/j.foodchem.2013.05.091.
- Cevallos-Cevallos JM, Danyluk MD, Reyes-De-Corcuera JI. 2011. GC-MS Based Metabolomics for Rapid Simultaneous Detection of *Escherichia coli* O157:H7, *Salmonella Typhimurium*, *Salmonella Muenchen*, and *Salmonella Hartford* in Ground Beef and Chicken. *J. Food Sci.* 76(4):238–246.doi:10.1111/j.1750-3841.2011.02132.x.
- Chang-Li X, Hou-Kuhan T, Zhau-Hua S, Song-Sheng Q, Yao-Ting L, Hai-Shui L. 1988. Microcalorimetric study of bacterial growth. *Thermochim. Acta.* 123(C):33–41.doi:10.1016/0040-6031(88)80007-8.



- Ciosek P, Wróblewski W. 2011. Potentiometric electronic tongues for foodstuff and biosample recognition-an overview. *Sensors*. 11(5):4688–4701.doi:10.3390/s110504688.
- Dias L. A., Peres AM, Veloso ACA, Reis FS, Vilas-Boas M, Machado AASC. 2009. An electronic tongue taste evaluation: Identification of goat milk adulteration with bovine milk. *Sens. Actuators B Chem.*136(1):209–217.doi:10.1016/j.snb.2008.09.025.
- Dias LG, Fernandes A, Veloso ACA, Machado AASC, Pereira JA, Peres AM. 2014. Single-cultivar extra virgin olive oil classification using a potentiometric electronic tongue. *Food Chem.* 160:321–329.doi:10.1016/j.foodchem.2014.03.072.
- Doyle MP, Beuchad LL, editors. 2014. *Food Microbiology: Fundamentals and Frontiers*. Ed. ke-3rd. Washington DC: American Society for Microbiology Press.
- Eng SK, Pusparajah P, Ab Mutalib NS, Ser HL, Chan KG, Lee LH. 2015. Salmonella: A review on pathogenesis, epidemiology and antibiotic resistance. *Front. Life Sci.* 8(3):284–293.doi:10.1080/21553769.2015.1051243.
- Ferens WA, Hovde CJ. 2011. Escherichia coli O157:H7: Animal Reservoir and Sources of Human Infection. *Foodborne Pathog. Dis.* 8(4):465–487.doi:10.1089/fpd.2010.0673.
- Flournoy DJ, Wongpradit S, Silberg SL, City O. 1990. Facilitating Identification of Lactose-Fermenting Enterobacteriaceae on MacConkey Agar. *Proceedings of the Oklahoma Academy of Science*. 70(C):5–8.
- Gardner JW, Shin HW, Hines EL, Dow CS. 2000. Electronic nose system for monitoring the quality of potable water. *Sens. Actuators B Chem.* 69(3):336–341.doi:10.1016/S0925-4005(00)00482-2.
- Ghasemi-Varnamkhasi M, Mohtasebi SS, Siadat M. 2010. Biomimetic-based odor and taste sensing systems to food quality and safety characterization: An overview on basic principles and recent achievements. *J. Food Eng.* 100(3):377–387.doi:10.1016/j.jfoodeng.2010.04.032.
- Ghrissi H, Veloso ACA, Marx ÍMG, Dias T. 2021. A Potentiometric Electronic Tongue as a Discrimination Tool of Water-Food Indicator / Contamination Bacteria. *Chemosensors*. 9(143):1–15.
- Haddadi K, Moussaoui F, Hebia I, Laurent F, Le Roux Y. 2005. E. coli proteolytic activity in milk. *Reprod. Nutr. Dev.* 45:485–496.doi:DOI: 10.1051/rnd:2005033.



- Hedgecock LW. 1961. Effect Of Vaccines Prepared From Histoplasma Capsulatum And Other Yeasts On Experimental Tuberculosis. *J. Bacteriol.* 82(1):115–123.doi:10.1128/jb.82.1.115-123.1961.
- Hidayat SN, Rusman A, Julian T, Triyana K, Veloso ACA, Peres AM. 2019. Electronic nose coupled with linear and nonlinear supervised learning methods for rapid discriminating quality grades of superior java cocoa beans. *Int. J. Intell.* 12(6):167–176.doi:10.22266/ijies2019.1231.16.
- Hruškar M, Major N, Krpan M, Vahčić N. 2010. Simultaneous determination of fermented milk aroma compounds by a potentiometric sensor array. *Talanta.* 82(4):1292–1297.doi:10.1016/j.talanta.2010.06.048.
- Hu L, Liu J, Zhang W, Wang T, Zhang N, Lee YH, Lu H. 2019. Functional Metabolomics Dechiper Biochemical Functions and Associated Mechanisms Underlie Small - Molecule Metabolism. *Mass Spectrom. Rev.*:1–17.doi:10.1002/mas.21611.
- Huang Y, Flint SH, Palmer JS. 2021. The heat resistance of spores from biofilms of Bacillus cereus grown in tryptic soy broth and milk. *Int. Dairy J.* 123:105169.doi:10.1016/j.idairyj.2021.105169.
- Islam Mm, Islam Mn, Fakhruzzaman M. 2014. Isolation and identification of Escherichia coli and Salmonella from poultry litter and feed. *Int. j. nat. soc.* 1(June):1–7.
- Jayarao BM, Donaldson SC, Straley BA, Sawant AA, Hegde N V., Brown JL. 2006. A survey of foodborne pathogens in bulk tank milk and raw milk consumption among farm families in Pennsylvania. *Int. J. Dairy Sci.* 89(7):2451–2458.doi:10.3168/jds.S0022-0302(06)72318-9.
- Jiang H, Zhang M, Bhandari B, Adhikari B. 2018. Application of electronic tongue for fresh foods quality evaluation: A review. *Food Rev. Int.* 34(8):746–769.doi:10.1080/87559129.2018.1424184.
- Karch H, Tarr PI, Bielaszewska M. 2005. Enterohaemorrhagic Escherichia coli in human medicine. *Int. J. Med. Microbiol.* 295(6–7):405–418.doi:10.1016/j.ijmm.2005.06.009.
- Kobayashi Y, Habara M, Ikezaki H, Chen R, Naito Y, Toko K. 2010. Advanced Taste Sensors Based on Artificial Lipids with Global Selectivity to Basic Taste Qualities and High Correlation to Sensory Scores. *Sensors.* 10:3411–3443.doi:10.3390/s100403411.
- Koser SA. 1924. Correlation of citrate utilization by members of the colon-aerogenes group with other differential characteristics and with habitat. *J. Bacteriol.* 9(1):59–77.



- Koutsoumanis K, Allende A, Alvarez-Ordóñez A, Bover-Cid S, Chemaly M, Davies R, De Cesare A, Herman L, Hilbert F, Lindqvist R, *et al.* 2020. Pathogenicity assessment of Shiga toxin-producing Escherichia coli (STEC) and the public health risk posed by contamination of food with STEC. *EFSA Journal*. 18(1):1–105.doi:10.2903/j.efsa.2020.5967.
- Kram KE, Finkel SE. 2015. Rich medium composition affects Escherichia coli survival, glycation, and mutation frequency during long-term batch culture. *Appl. Environ. Microbiol.* 81(13):4442–4450.doi:10.1128/AEM.00722-15.
- Kumar N, Bansal A, Sarma GS, Rawal RK. 2014. Chemometrics tools used in analytical chemistry: An overview. *Talanta*. 123:186–199.doi:10.1016/j.talanta.2014.02.003.
- Le TX, Datta N, Deeth HC. 2006. A sensitive HPLC method for measuring bacterial proteolysis and proteinase activity in UHT milk. *Food Res. Int.* 39(7):823–830.doi:10.1016/j.foodres.2006.03.008.
- Leininger DJ, Roberson JR, Elvinger F. 2001. Use of eosin methylene blue agar to differentiate Escherichia coli from other gram-negative mastitis pathogens. *J. Vet. Diagn.* 13(3):273–275.doi:10.1177/104063870101300319.
- Ma Y, Ding S, Fei Y, Liu G, Jang H, Fang J. 2019. Antimicrobial activity of anthocyanins and catechins against foodborne pathogens Escherichia coli and Salmonella. *Food Control*. 106(March):106712.doi:10.1016/j.foodcont.2019.106712.
- Marx Í, Rodrigues N, Dias LG, Veloso ACA, Pereira JA, Drunkler DA, Peres AM. 2017. Sensory classification of table olives using an electronic tongue: Analysis of aqueous pastes and brines. *Talanta*. 162(September 2016):98–106.doi:10.1016/j.talanta.2016.10.028.
- Mossel DA., Mengerink WH., Scholts HH. 1962. Use of a Modified Macconkey Agar Medium for the. *J. Bacteriol.* 84(2):381.
- Pereira JM, Leme LM, Perdoncini MRFG, Valderrama P, Março PH. 2018. Fast Discrimination of Milk Contaminated with Salmonella sp. Via Near-Infrared Spectroscopy. *Food Anal. Methods*. 11(7):1878–1885.doi:10.1007/s12161-017-1090-0.
- R. S. HORVATH MER. 2015. Mechanism of Action of Eosin-Methylene Blue Agar in the Differentiation of. *Int J Syst Bacteriol.* 24(2):221–224.
- Raji MA, Minga U, Machangu R. 2006. Current epidemiological status of enterohaemorrhagic Escherichia coli O157: H7 in Africa. *Chin. Med. J.*



119(3):217–222.

Ray B. 2003. *Fundamental Food Microbiology*.

Sargo CR, Campani G, Silva GG, Giordano RC, Silva AJ Da, Zangirolami TC, Lu RW, Correia DM, Lu RW. 2015. Salmonella typhimurium and Escherichia coli Dissimilarity : Closely Related Bacteria with Distinct Metabolic Profiles. *Biotechnology progress*.doi:10.1002/btpr.2128.

Shuai Y, Jiang C, Su X, Yuan C, Huang X. 2020. A Hybrid Clustering Model for Analyzing COVID-19 National Prevention and Control Strategy. *2020 IEEE 6th International Conference on Control Science and Systems Engineering, ICCSSE 2020*.:68–71.doi:10.1109/ICCSSE50399.2020.9171941.

Silas MR, Schroeder RM, Thomson RB, Myers WG. 2017. Optimizing the antiseptis protocol: Effectiveness of 3 povidone–iodine 1.0% applications versus a single application of povidone–iodine 5.0%. *J Cataract Refract Surg*. 43(3):400–404.doi:10.1016/j.jcrs.2017.01.007.

Singh D, Singh B. 2020. Investigating the impact of data normalization on classification performance. *Appl. Soft Comput.* 97:105524.doi:10.1016/j.asoc.2019.105524.

Siripatrawan U. 2008. Rapid differentiation between E. coli and Salmonella Typhimurium using metal oxide sensors integrated with pattern recognition. *Sens. Actuators B Chem.* 133(2):414–419.doi:10.1016/j.snb.2008.02.046.

Śliwińska M, Wiśniewska P, Dymerski T, Namieśnik J, Wardencki W. 2014. Food analysis using artificial senses. *J. Agric. Food Chem.* 62(7):1423–1448.doi:10.1021/jf403215y.

Sousa A, Casal S, Bento A, Malheiro R, Oliveira MBPP, Pereira JA. 2011. Chemical characterization of “alcaparras” stoned table olives from northeast Portugal. *Molecules*. 16(11):9025–9040.doi:10.3390/molecules16119025.

Stiles ME, Ng LK. 1981. Biochemical characteristics and identification of Enterobacteriaceae isolated from meats. *Appl. Environ. Microbiol.* 41(3):639–645.doi:10.1128/aem.41.3.639-645.1981.

Tazi I, Choiriyah A, Siswanta D, Triyana K. 2017. Detection of taste change of bovine and goat milk in room ambient using electronic tongue. *Indones. J. Chem.* 17(3):422–430.doi:10.22146/ijc.25288.

Tazi I, Triyana K, Siswanta D. 2016. A novel Arduino Mega 2560 microcontroller-based electronic tongue for dairy product classification. *AIP Conference*



*Proceedings*. 1755(July).doi:10.1063/1.4958605.

- Tazi I, Triyana K, Siswanta D, Veloso ACA, Peres AM, Dias LG. 2018. Dairy products discrimination according to the milk type using an electrochemical multisensor device coupled with chemometric tools. *J. Food Meas. Charact.*. 12(4):2385–2393.doi:10.1007/s11694-018-9855-8.
- Tikus H, Wistar G, Fitria L, Illiy LL, Dewi R. 2016. Pengaruh Antikoagulan dan Waktu Penyimpanan terhadap Profil Hematologis Tikus (*Rattus norvegicus* Berkenhout, 1769) Galur Wistar. *Biosfera*. 33(1):22–30.doi:10.20884/1.mib.2016.33.1.321.
- Toyota K, Cui H, Abe K, Habara M. 2011. Sweetness Sensor with Lipid / Polymer Membranes : Sweet-Responsive Substances. *Sens. Mater.*. 23(8):465–474.
- Turner C, Rudnitskaya A, Legin A. 2003. Monitoring batch fermentations with an electronic tongue. *J. Biotechnol.*. 103(1):87–91.doi:10.1016/S0168-1656(03)00066-X.
- Vanaja SK, Jandhyala DM, Mallick EM, Leong JM, Balasubramanian S. 2013. *Enterohemorrhagic and Other Shigatoxin-Producing Escherichia Coli*. Second Edi. Elsevier.
- Veloso ACA, Silva LM, Rodrigues N, Rebello LPG, Dias LG, Pereira JA, Peres AM. 2018. Perception of olive oils sensory defects using a potentiometric taste device. *Talanta*. 176(August 2017):610–618.doi:10.1016/j.talanta.2017.08.066.
- Velusamy V, Arshak K, Korostynska O, Oliwa K, Adley C. 2010. An overview of foodborne pathogen detection: In the perspective of biosensors. *Biotechnology Advances*. 28(2):232–254.doi:10.1016/j.biotechadv.2009.12.004.
- Veys O, Oliveira S De, Sampers I, César E. 2016. Modelling the growth of *Salmonella* spp . and *Escherichia coli* O157 on lettuce. *Italian Oral Surgery*. 7:168–172.doi:10.1016/j.profoo.2016.10.003.
- Wang H, Sun H. 2019. Potential use of electronic tongue coupled with chemometrics analysis for early detection of the spoilage of *Zygosaccharomyces rouxii* in apple juice. *Food Chem.*. 290(March):152–158.doi:10.1016/j.foodchem.2019.03.120.
- Wiley JM, Sherwood LM, Woolverton CJ. 2014. *Prescott's Microbiology Ninth Edition*. Ninth. New York: McGraw Hill.
- Yang X, Wu Q, Huang J, Wu S, Zhang J, Chen L, Wei X, Ye Y, Li Y, Wang J.



2020. Prevalence and characterization of Salmonella isolated from raw vegetables in China. *Food Control*. 109(100).doi:10.1016/j.foodcont.2019.106915.