DAFTAR PUSTAKA

Aida. A.A., Che Man Y.B., Wong C.M.V.L., Raha AR., Son R., 2005, *Analysis of Raw Meats and Fats of Pigs Using Polymerase Chain Reaction for Halal Authentication*, **69**: 47-52.

Ali, M.E., Hashim, U., Mustafa, S., dan Che Man, Y.B., 2012a, Multiplex PCR in Species Authentication: Probability and Prospects—A Review. *Food Analytical Methods*, **5**: 613-623.

Ali, E., Rahman, M., Hamid, S.B., Mustafa, S., Bhassu, S., and Hashim, U., 2013, *Canine-Specific PCR Assay Targeting Cytochrome b Gene for The detection of Dog Meat Adulteration in Commercial Frankfurters*, Springer.

Ali, E., Razzak, A., Hamid, S.B., Rahman, M., Al amin, Rashid, N.R., Asing., 2015, Multiplex PCR Assay for The detection of Five Meat Species Forbidden in Islamic Food, *Food Chemistry*, **177**: 214-224.

Ali, M.E., Raifana Abdul A.N., Bee Abd Hamid, S., Hossain, S.M.A., Asing, A., Hossain, M.A.M., *et al*, 2017, Development and Validation of Short-Amplicon Lenght PCR assay for Macaques Meat Detectioon Under Coomplex Matrices, *International Journal of Food Properties*, **20**: 231-245.

Anonim, 1995, SNI 01-38180-1995, *Bakso Daging*, BSN, Jakarta.

Arya, M., Shergill, I.S., Williamson, M., Gommersall, L., *et al.*, 2005, *Basic Principles of Real-Time Quantitative PCR*, **5(2)**: 209-19.

Bio-Rad, 2006, Real Time PCR Application Guide, Bio-Rad Laboratories, Inc, USA.

Borah, P., 2011, Primer Designing for PCR, Departement of Microbiology, College of Veterinary Science, Assam Agriculture University, Guwahati, India, ISSN : 2229-6026.

Breslauer, K.J, Ronald, F., Blocker, H., and Marky, L. A., 1986, *Predicting DNA Duplex Stability from the Base Sequence, Proceedings of the National Academy of Science of the United State of America*, **83**: 3746-3750.

Broeders, S., Huber, I., Grohman, I., Berben, G., Taverniers, I., Mazzara, M., Roosens, N., and Moorisset, D., 2014, Guidelines foor Validation of Qualitative Real-Time PCR Methods, *Trends in Food Science & Technology*, **37**: 115-126.

Buh, G.M., Tengs, T., La Paz, JL., 2010, Comparison of Nine Different Real-Time PCR Chemistries for Qualitative and Quantitative Applications in GMO Detection. *Anal Bioanal Chem* 2010; **396 (6)**: 2023-2029.

Camma', C., Domenico, M.D., dan Monaco, F., 2012, Development and Validation of fast Real-Time PCR assays for species Identification in Raw and Cooked Meat Mixtures, *Food Control*, **23**: 400-404.

Che Man, Y.B., Muustafa, S., Khairil M.N.F., Nordin, R., dan Sazili, A.Q., 2012, Porcine-Specific Polymerase Chain Reaction Assay Based no Mitochondrial D-loop Gene for Identification of Poork in Raw Meat, *Int. J. Food Prop*, **15(1)**: 134-144.

Clark, D., dan Pazdernik, N., 2005, *Molecular Biology: Understanding the Genetic Revolution*, Elsevier Academic Press, USA.

CNC, 2017, Anjing Asli Indonesia, *CNC*, 13 September 2017,.

Compton .T., 1990, Degenerate primers for DNA amplification. pp. 39-45 in: PCR Protocols (Innis, Gelfand, Sninsky and White, eds.); Academic Press, New York.

Dewi, E.Q., 2017, 'Desain Dan Uji Kinerja *Probe* Taqman *Real-Time Polymerase Chain Reaction* (Rt-Pcr) Spesifik Anjing (*Canis Lupus Familiaris*) Dengan Gen Sitokrom-B Dna Mitokondria', *Skripsi*, S.Si., Universitas Gadjah Mada, Yogyakarta.

Dieffenbach, C.W., Lowe, T.M.J., and Dveksler, G.S., 1995, General Concepts for PCR Primer Design, In: PCR Primer, A Laboratory Manual, Dieffenbach C.W., Dveksler, G.S. E., 133-155, Cold Spring Harbor Laboratory Press, New York.

Erwanto, Y., Abidin, M.Z., Sugiyono, E.Y., Rohman, A., 2014. Identification of Pork Contamination in Meatballs of Indonesia Local Market Using Polymerase Chain Reaction-Restriction Fragment Length polymorphism (PCR-RFLP) Analysis, *Asian Australas. J. Anim. Sci.* **27(10)** : 1487-1492.

Fajardo, V., Gonzàlez, I., Martin, I., Rojas, M., Hernàndez, P.E., Garet' a, T., *et al*., 2008, Differentiation oof European Wild boar (Sus scrofa scrofa) and Domestic swine (Sus scrofa domentica) Meats by PCR Analysis Targeting the Mitochondrial D-loop and the Nuclear Melanocortin Receptor 1 (MC1R) genes, *Meat Science*, **78**: 314-322.

Fajardo, V., Gonzales, L., Rojas, M., Garcia, T., and Martin, G., 2010, A Review of Current PCR-Based Methodologies for the Authentication of Meats from Gene Animal Species Trends, *Trends Food Sci. Technol*., **21(8)**, 408 – 411.

Fonsesca, R.R., Johnson, W.E., O' Brie, O.J., Ramos, M.J., and Antunes, A., 2008, The Adaptive Evolution of the Mammalian Mitochondrial Genome, Research Article, *BioMed Central 9,* **119**: 8.

Ghovvati, S., Nassiri, M, R., Mirhoseini, S.Z., Moussavi, A.H., dan Javadmanesh, A., 2009, Fraud Identification in Industrial Meat Products by Multiplex PCR assay, *Food Control*, **20(8)**: 696-699.

Gibbs, R.A., f1990, DNA Amplification by the Polymerase Chain Reaction, *Analytical Chemistry*, **62**: 1202-1214.

Giglio, S., Monis, P.T., and Saint, C.P., 2003, Demonstration of Preferential Binding of SYBR Green I to Specific DNA Fragments in Real-time Multiplex PCR, *Nucleic Acids Research*, **31**: 136.

Gonzalez-Escalona, N., Fey , A., Hofle, M.G., Espejo, R.T., and Guzman, A., 2006, Quantitative Reverse Transcription Polymerase Chain Reaction Analysis of Vibrio Cholerae Cells Entering The Viable But Non-Culturable State and Starvation in Response to Cold Shock. *Environ Microbiol*, **8**: 658–666.

Gudnason, H., et al, 2007, Comparison of Multiple DNA Dyes for Real-Time PCR: Effects of Dye Concentration and Sequence Composition on DNA Amplification and Melting Temperature, *Nucleic Acids Res*, **35(19)**: 127-128.

Guntarti, A., Martono, S., Yuswanto, A. And Rohman, A., 2017, Analysis of Beef Meatball Adulteration with Wild Boar Meat Using Real-Time Polymerase Chain Reaction, *International Research Journal*, **24(6)**: 2451-2455.

Handoyo, D., dan Rudiretna, A., 2000, General Principles and Implementation of Polymerase Chain Reaction, *Unitas*, **9(1)**, 17-29.

Hanuraga, R.A., 2014, Aplikasi High Resolution Melting Analysis (HRMA) dalam RT PCR Bertarget Gen Cytochrome C Oxidase, *Skripsi*, Universitas Gadjah Mada.

Heid, C. A., Stevens, J., Livak, K.J., and Williams, P.M., 1996, Real time Quantitative PCR., *Genome Res*. **6**: 986-994.

Higuchi, R., et al, 1993, Kinetic PCR analysis: Real Time monitoring of DNA Amplification Reaction, *Biotechonology*, **11(9)**, 1026-30.

Holland, P.M., Abramson, R.D., Watson, R., and Gelfand, D.H., (1991), Detection of specific polymerase chain reaction product by utilizing the 50 –30 exonuclease activity of Thermus aquaticus DNA polymerase. *P Natl Acad Sci USA*, **88**: 7276–7280.

Holme, D.J., Hazel, 1998, *Analytical Biochemistry 3rd ed*, Addison Wesley Longman, London.

Hseish, H.M., Chiang, H.L., Tsai, L.C., Lai, S.Y., Huang, N.E., Linacre, A., dan Lee, J.C.I., 2001, Cytochrome b Gene for Species Identification of the Conservation Animal, *Forensic Science International*, **122**: 7-18.

Innis, M.A., dan Gelfand, D.H., 1990, Optimization of PCRs. pp. 3-12 in: PCR Protocols (Innis, Gelfand, Sninsky and White, eds.); Academic Press, New York.

Jansen, K., Norde´n, B., Kubista, M., 1993, Sequence dependence of 40,6-diamidino-2 phenylindole (DAPI)-DNA interactions, *Jurnal American Chemistry Society*, **115**: 10527–10530.

Johansson, dan Katherine, M., 2006, Choosing Reporter-Quencher Pairs for efficient Quenching Through Formation of Intramolecular Dimers, Methods in Molecular Biology, vol. 335: Fluorescent Energy Transfer Nucleic Acid Probes: Design and protocols. Edited by: V, Didenko, Humana Press Inc., Totowa, N.

Kanthaswamy, S., Premasuthan, A., Ng, J., Satkoski, Goyal, V., 2012, Quantitative Real-Time PCR (qPCR) Assay for Human-Dog-Cat Species Identification and Nuclear DNA Quantification, *Forensic Science International: Genetics* , **6**: 290-295.

Kutyavin, I.V., Afonina, I.A., Mills, A., Gorn, V.V., Lukhtanov, E.A., Belousov, E.S., Michael, J., David, K., Walburger, Sergey, G., Alexander, A., Gall, Dempcy, R., Michael, W., Reed, Rich, B., Meyer, Hedgpeth, J., 2000, 3'-minor groove binder-DNA probes increase sequence specificity at PCR extension temperatures, *Nucleic Acids Res*, ***28(2)***:655–61.

Livak, K.J., Flood, S.J., Marmaro, J., Giusti, W., and Deetz, K., 1995, Oligonucleotides with fluorescent dyes at opposite ends provide a quenched probe system useful for detecting PCR product and nucleic acid hybridization. *PCR Methods Appl*, **4**: 357–362.

Malisa, A.L.P., Gwakisa, S., Bhaltazary, S.K., Wasser, B.M., dan Mutayoba, 2006, The Potential of Mitochondrial DNA Markers and Polymerase Chain Reaction-restriction Fragment Length Polymorphism for Domestic and Wild Species Identification, *African of Biotechnology*, **5(18)**: 1588

Maryam, St., Sismindari, Raharjo, T.J., Sudjadi, Rohman A, 2015, determination of porcine contamination in prepared dendeng using mitochondrial D-loop 686 and cyt b gene primers by real-time pollymerase chain reaction, *International Journal of Food Properties*, 187-195.

Mohamad, N.A., El Sheikha, A.F., Mustafa, S., and Mokhtar, N.F.K, 2013, Comparison of gene nature used in real time PCR for porcine identification and quantification: A Review. *Food Research International*, **50**: 330-338.

Muladno, 2010, *Teknologi Rekayasa Genetik*, Edisi Kedua, IPB Press, Bogor.

Navarro, E., Serrano-Heras, G., Castano, M.J. and Solera, J., 2015, Real-time PCR Detection Cemistry, Clin. Chim. Acta, **439**: 231-250.

Nuryani, I., 2014, Uji Spesifitas Metode Cemaran Daging Tikus dalam Bakso Sapi Menggunakan Teknik *Polymerase Chain Reaction* (PCR)-Primer Spesifik Berdasarkan Urutan DNA Mitokondria, *Tesis*, Program S2 Kimia Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Gadjah Mada, Yogyakarta.

Nygren, J., Svanvik, N., dan Kubista, M., 1998, The interaction between the fluorescent dye thiazole orangeand DNA, *Biopolymers*, **46**: 39–51.

Kanchanaphum, P., Maneenin, S., and Chaiyana, W., 2014, Analysis Of Pork Meat Using Loop Mediated Isothermal Amplification (LAMP) To Confirm Halal Status, *International Journal of Biosciences*, **4(9)**, 62-68.

Pardal, S.J., 2010, Menguji Ekspresi Gen menggunakan Real Time PCR, *Warta Penelitian dan Pengembangan Pertanian*, **32**: 13-14.

Park, C.B dan Larsson, N.G., 2011, Mitochondrial DNA Mutations in Disease and aging, *J. Cell Biol*, **193(5)**, 809-818.

Patricia, S.S., John, V., Itamar, G., and Noel, B., 2009, Primers development and virus identification strategies, In: Insect Pathogens: Molecular Approaches and Techniques, *CAB International*, p.**22**.

Pebriyanti, N.W., 2018, 'Penggunaan *Real Time Polymerase Chain Reaction* (*Realtime* Pcr) Untuk Analisis Daging Anjing (*Canis Lupus Familiaris*) Dalam Bakso', *Skripsi*, S.Farm., Universitas Gadjah Mada Yogyakarta.

Pratiwi, D., 2016, Analisis DNA Gelatin Sapi Dalam Cangkang Kapsul Dengan Metode Quantitative Polymerase Chain Reaction Melalui Perancangan Primer Spesifik Gen D-Loop Bovine, *Skripsi*, Fakultas Farmasi Universitas Gadjah Mada Yogyakarta.

Raharjo, T.J., Alfiraza, E.N., Enjelina, E., & Pranowo, D. (2017). Validation of a Non-Specific Dye Real-Time PCR Assay for Porcine Adulteration in Meatball Using ND5 Primer, *Indones. J. Chem*, **17(2)**: 167–174.

Rahman, M.T., Uddin, M.S., Sultana, R., Mone, A., Setu, M., 2012, Polymerase Chain Reaction (PCR): A Short Review, *Answer Khan Modern Medical College Journal*, **4(1)**, 30-36.

Rahman, M., Ali, E., Hamid, S.B., Mustafa, S., Hashim, U., Hanapi, U.K., 2014, Polymerase Chain Reaction Assay Targeting Cytochrome B Gene For The Detection Of Dog Meat Adulteration In Meatball Formulation, *Meat Science*, **97**: 404-409.

Rahman, M., Hamid, S.B., Jefrey, W.B., Bhassu, S., Raifana, N.A.R., Mustafa, S., Nasir, M.D., Ali, E., 2016, TaqMan Probe real Time Polymerase Chain reaction Assay for The Quantification of Canine DNA in Chicken Nugget, *Food Additives and Contaminants: Part A.*

Rahmawati, Sismindari, Raharjo, T.J., Sudjadi, Rohman, A., 2016, Analysis of Pork Contamination in Abon Using Mitochondrial D-Loop22 Primers Using Real Time Polymerase Chain Reaction Method, *International Food Research Journal*, **23**(1): 370-374.

Rashid , N.R.A., Ali, M.E., Hamid, S.B.A., Rahman, M.M., Razzak, M.A., Asing, *et al*, 2015a, A Suitable Method for The Detection of a Potential fraud of

bringing Macaque Monkey Meat into the Food Chain, *Food Additives & Contamination*: *Part A,* **32**:1013-1022.

Rohman, A., and Che Man, Y.B.C., 2012, Analysis of Pig derivatives for Halal Authentication Studies, *Food Review International,* **28**: 97-112.

Sambrook, J., dan Russel, D.W, 2001. Molecular Cloning : A Laboratory Manual Third Edition. Cold Spring Harbor Laboratory Press. New York.

Shipley, G.L., 2007, Quantitative Real-Time Q-PCR : A Very Short Course, Department of Integrative Biology & Pharmacology University of Texas Health Science Center – Houston Houston, Texas.

Smith, C.J., dan Osborn, A.M, 2008, Advantage and Limitation of Quantitative PCR (Q-PCR) Based Approaches in Microbial Ecology, Departement of Animal and Plant Science University of Sheffield, Western Bank, Sheffield UK, Blackwell Publising Ltd., *Federation of European Microbiological Societies*, **67**: 6-20.

Somma, M., and Querci, M., 2006, The Analysis of Food Samples for The Presence of Genetically Modified Organisms : The Polymerase Chain Reaction, Session 6, *European Commision: JRC*.

Stanta, G., 2011, *Guidelines for Molecular Analysis in Archive Tissues*, **1.** Springer. Diakses dari http://link.springer.com/content/pdf/10.1007/978-3-642-17890-0.pdf

Sudjadi, 2008, *Bioteknologi Kesehatan*, Kanisius, Yogyakarta.

Sudjadi., dan Rohman, A., 2016, *Analisis Derivat Babi*, Cetakan I, UGM Press, Yogyakarta.

Svec, D., A. Tichopad, V. Novosadova, M.W. Pfaffl and M. Kubista, 2015, How good is a PCR efficiency estimate: Recommendations for precise and robust qPCR efficiency assessments. Biomol. Detection Quantification, **3**: 9-16

Van Pelt-Verkuil, E., Van Belkum, A., dan Hays, J.P., 2008, *Principles and Technical Aspects of Real-time PCR Amplification*, 119-139, Springer, Germany.

Wibowo, S., 2006. Pembuatan Bakso Ikan dan Bakso Daging. Penebar Swadaya, Jakarta.

Widayanti, R., 2006, Kajian Penanda Genetik Gen *Cytochrome b* dan Daerah DLoop pada *Tarsius* sp, Disertasi, Sekolah Pascasarjana, Institut Pertanian Bogor, Bogor.

Widyasari, Y.I., Sudjadi, and Rohman , A., 2015, Detection of Rat Meat Adulteration in Meatball Formulations Employing Real-Time PCR, *Asian Journal of Animal Science*, **9**: 460-465.

Wittwer, C.T., Herrmann, M.G., Moss, A.A., and Rasmussen, R.P., 1997, Continuous fluorescence monitoring of rapid cycle DNA amplification. *BioTechniques*, **22**: 130–138.

Ye, Coulouris, G., Zaretskaya, I., Cutcutache, I., Rozen, S., Madden, TL., 2012, Primer-BLAST : A Tool to Design Target-Specific Primers for PCR, *BMC Bioinformatics*, **13**: 134.

Zilhadia, Afifah, N.I., dan Ofa, S.B., 2017, Perbandingan Metode SYBR Green dan Hydrolisis Prbe dalam Analisis DNA Gelatin Sapi dan Babi Menggunakan Real Time PCR, *Jurnal Sains Farmasi & Klinis*, 4(**2**); 16-23.