UNIVERSITAS
GADJAH MADA
Isolasi dan Identifikasi Bakteri pada Limbah Cair Tahu serta Analisis Degradasi Amilum
Azizah Cahayaning Munaa, Prof. Dr. Endah Retnaningrum, S.Si., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Abdallah, M. S., Mustapha, T., Gambo, A., & Ishaq, S. (2016). Biochemical identification and cultural characterization of some Gram-negative bacteria obtained from fecal/Diarrhoeal samples. *Cibtech Journal of Microbiology An Online International Journal*, *5*, 17-24.

AL-Joda, B. M. S., & Jasim, A. H. (2021). Biochemical testing revision for identification several kinds of bacteria. *Journal of University of Babylon for Pure and Applied Sciences*, *29*(2), 168-176.

Asril, M., Oktaviani, I. and Leksikowati, S.S. (2019). Isolasi Bakteri Indigeneous dari Limbah Cair Tahu dalam Mendegradasi Protein dan Melarutkan Fosfat (Isolation of Indigineous Bacteria from Tofu Wastewater for Degrading Proteins and Solubilizing Phosphate). *Jurnal Teknologi Lingkungan Vol*, *20*(1).

Barboza, P. S., Parker, K. L., & Hume, I. D. (2009). Carbohydrates: Sugars, fiber and fermentation. In *Integrative Wildlife Nutrition* (pp. 97-118). Berlin/Heidelberg, Germany: Springer.

Beveridge, T. J. (2001). Use of the Gram stain in microbiology. *Biotechnic & Histochemistry*, *76*(3), 111-118.

Brenner, D. J., O'Hara, C. M., Grimont, P. A., Janda, J. M., Falsen, E., Aldova, E., & Steigerwalt, A. G. (1999). Biochemical identification of Citrobacter species defined by DNA hybridization and description of Citrobacter gillenii sp. nov.(formerly Citrobacter genomospecies 10) and Citrobacter murliniae sp. nov.(formerly Citrobacter genomospecies 11). *Journal of Clinical Microbiology*, *37*(8), 2619-2624.

Brown, A. E., & Smith, H. (2015). Benson's Microbiological Applications: Laboratory Manual in General Microbiology (13th ed). McGraw-Hill Higher Education.

Cappuccino, J. G., & Welsh, C. (2017). *Microbiology: A Laboratory Manual* (11th edition). Pearson.

Chauhan, A., & Jindal, T. (2020). Biochemical and molecular methods for bacterial identification. In *Microbiological methods for environment, food and pharmaceutical analysis* (pp. 425-468). Cham: Springer International Publishing.

Eslami, H., Sedighi Khavidak, S., Salehi, F., Khosravi, R., Fallahzadeh, R. A., Peirovi, R., & Sadeghi, S. (2017). Biodegradation of methylene blue from aqueous solution by bacteria isolated from contaminated soil. *Journal of Advances in Environmental Health Research*, *5*(1), 10-15.

Fatoni, A. and Lestari, P. (2012). Isolasi dan karakterisasi protease ekstraseluler dari bakteri dalam limbah cair tahu. *Jurnal Natur Indonesia*, *10*(02).

Fatwa, E.B., Yoswaty, D. and Effendi, I. (2021). Identification of indigenous bacteria from Dumai sea waters using 16S rRNA method. *Journal of Coastal and Ocean Sciences*, *2*(3), pp.184-188.

Gunkova, P. I., Buchilina, A. S., Maksimiuk, N. N., Bazarnova, Y. G., & Girel, K. S. (2021, September). Carbohydrate fermentation test of lactic acid starter cultures. In *IOP Conference Series: Earth and Environmental Science* (Vol.

UNIVERSITAS
GADJAH MADA
Isolasi dan Identifikasi Bakteri pada Limbah Cair Tahu serta Analisis Degradasi Amilum
Azizah Cahayaning Munaa, Prof. Dr. Endah Retnaningrum, S.Si., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

852, No. 1, p. 012035). IOP Publishing.

Handoko, Y. A., Kristiawan, Y. A., & Agus, Y. H. (2020). Isolasi dan karakterisasi biokimia bakteri pembusuk buah cabai rawit: Isolation and biochemistry characterization spoilage bacteria in cayenne pepper fruit. *Teknologi Pangan: Media Informasi dan Komunikasi Ilmiah Teknologi Pertanian*, *11*(1), 34-41.

Herawati, N., Rifdah, R., & Muthiah, N. M. (2023). Kajian pengaruh massa dan waktu operasi pada pengolahan limbah cair industri tahu dengan menggunakan residue catalytic cracking (RCC) sebagai adsorben. *Jurnal Distilasi*, *8*(1), 1-11.

Hidayati, R., Nasution, H., & Sari, M. K. (2025). Analisa Pengujian Kadar Nitrat, Nitrit dan Klorida pada Air Mineral dengan Metode Spektrofotometri UV–VIS dan Titrimetri. *Jurnal Inovasi Teknik Kimia*, *10*(4), 24-30.

Jahangirpuria, H. D., Makwana, S. A., & Patel, C. G. (2017). Identification of carbohydrates. *The World Journal of Engineering and Applied Science*, *3*(6), 1-17.

Kloos, W. E., & Schleifer, K. H. (1975). Simplified scheme for routine identification of human Staphylococcus species. *Journal of clinical microbiology*, *1*(1), 82-88.

Krishnapriya, S. and Babu, D.V. (2015). Isolation and identification of bacteria to improve the strength of concrete. *Microbiological research*, *174*, pp.48-55.

Kumar, N., Tripathi, K., & Srivastava, Y. (2025). Composition, optimization, and preparation of culture media for microbiological and biotechnological. *Biotechnology Lab Techniques: Culture Media, Microscopy, and Microbial Analysis*, *13*, 19.

Kusumasari, W., Indrayati, A., & Cahyo, L. M. (2023). Isolasi dan Identifikasi BakteriPenghasil Protease Ekstraseluler dari Limbah Cair Industri Tahu. *Jurnal Insan Farmasi Indonesia*, 6(1), pp.134 143.

Lal, A., & Cheeptham, N. (2012). *Starch Agar Protocol*. American Society for Microbiology.

MacWilliams, M. P. (2012). Indole test protocol. *American Society for Microbiology, Washington, DC*, 1-3.

Mallongi, A. and Natsir, M. F. (2018). Efisiensi pengolahan limbah cair industri tahu menggunakan biofilter sistem upflow dengan penambahan Efektif Mikroorganisme 4. *Jurnal Nasional Ilmu Kesehatan*, *1*(2).

McDevitt, S. (2009). Methyl red and voges-proskauer test protocols. *American Society for Microbiology*, *8*, 1-9.

Miłek, J., & Lamkiewicz, J. (2022). The starch hydrolysis by α-amylase Bacillus spp.: an estimation of the optimum temperatures, the activation and deactivation energies: J. Miłek, J. Lamkiewicz. *Journal of Thermal Analysis and Calorimetry*, *147*(24), 14459-14466.

Nimisha, P., Moksha, S. and Gangawane, A.K. (2019). Amylase activity of starch degrading bacteria isolated from soil. *International Journal of Current Microbiology and Applied Sciences*, *8*(4), pp.659-671.

Osaki, T., Mabe, K., Hanawa, T., & Kamiya, S. (2008). Urease-positive bacteria in the stomach induce a false-positive reaction in a urea breath test for diagnosis of Helicobacter pylori infection. *Journal of medical*

UNIVERSITAS
GADJAH MADA
Isolasi dan Identifikasi Bakteri pada Limbah Cair Tahu serta Analisis Degradasi Amilum
Azizah Cahayaning Munaa, Prof. Dr. Endah Retnaningrum, S.Si., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

microbiology, *57*(7), 814-819.

Pathak, V. M. (2017). Review on the current status of polymer degradation: a microbial approach. *Bioresources and Bioprocessing*, *4*(1).

Peters, D. (2006). Carbohydrates for fermentation. *Biotechnology Journal: Healthcare Nutrition Technology*, *1*(7-8), 806-814.

Pulungan, A. S. S., & Tumangger, D. E. (2018). Isolasi dan karakterisasi bakteri endofit penghasil enzim katalase dari daun buasbuas (Premna pubescens Blume). *BIOLINK (Jurnal Biologi Lingkungan Industri Kesehatan)*, *5*(1), 71-80.

Raliby, O., Rusdjijati, R., & Rosyidi, I. (2009). Pengolahan limbah cair tahu menjadi biogas sebagai bahan Bakar alternatif pada industri pengolahan tahu. *Jurnal Litbang Provinsi Jawa Tengah*, *7*(2), 213-223.

Reddy, G., Altaf, M.D., Naveena, B.J., Venkateshwar, M. and Kumar, E.V. (2008). Amylolytic bacterial lactic acid fermentation—a review. *Biotechnology advances*, *26*(1), pp.22-34.

Reiner, K. (2012). *Carbohydrate Fermentation Protocol*. American Society for Microbiology.

Retno Ken, R., Indah, A.W.N.J.L. and Yulianti, M. (2019). Peranan Bakteri Indigenus dalam Degradasi Limbah Cair Pabrik Tahu. *Biota: Jurnal Ilmiah Ilmu-Ilmu Hayati*, pp.8-15.

Reynolds, J., Moyes, R., & Breakwell, D. P. (2009). Differential staining of bacteria: endospore stain. *Current Protocols in Microbiology*, *15*(1), A-3J.

Rodwell, V. W., Bender, D. A., Botham, K. M., Kennelly, P. J., & Weil, P. A. (2018). *Harper's Illustrated Biochemistry* (31st edition). McGraw-Hill Medical.

Romadhina, M. G., Sunarti, R. N., Fitrianti, M., Gasanova, N., & Salsabila, N. A. 2020. Analisa Fisik dan Kimia Pada Limbah Cair Domestik dan Industri Karet di Kota Palembang. In *Prosiding Seminar Nasional Sains dan Teknologi Terapan* (Vol. 3, No. 1).

Sathiah, S., & Pan, I. (2023). Isolation of probiotic lactococcus from milk and milk powder by serial dilution spread plate method to study antimicrobial activity. In *International Conference On Enviromental Engineering and Material Sciences: ICEEMS-2021*, Vol. 2655, No. 1, p. 020088. AIP Publishing LLC.

Sabbathini, G. C., & Pujiyanto, S. (2017). Isolasi dan identifikasi bakteri genus Sphingomonas dari daun padi (*Oryza sativa*) di area persawahan Cibinong. *Jurnal Akademika Biologi*, *6*(1), 59-64.

Shield, P., & Cathcart, L. (2011). *Motility Test Medium Protocol*. American Society for Microbiology.

Terrones-Fernandez, I., Casino, P., López, A., Peiró, S., Ríos, S., Nardi-Ricart, A., & Piqué, N. (2023). Improvement of the pour plate method by separate sterilization of agar and other medium components and reduction of the agar concentration. *Microbiology spectrum*, *11*(1), e03161-22.

Tester, R. F., Qi, X., & Karkalas, J. (2006). Hydrolysis of native starches with amylases. *Animal feed science and technology*, *130*(1-2), 39-54.

Tian, Y., Wang, Y., Zhong, Y., Møller, M.S., Westh, P., Svensson, B. and Blennow, A., 2023. Interfacial catalysis during amylolytic degradation of starch granules: Current understanding and kinetic approaches. *Molecules*, *28*(9),

UNIVERSITAS
GADJAH MADA
Isolasi dan Identifikasi Bakteri pada Limbah Cair Tahu serta Analisis Degradasi Amilum
Azizah Cahayaning Munaa, Prof. Dr. Endah Retnaningrum, S.Si., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

p.3799.

Tizabi, D., & Hill, R. T. (2023). Micrococcus spp. as a promising source for drug discovery: A review. *Journal of Industrial Microbiology and Biotechnology*, *50*(1), kuad017.

Tzvetkova, I., Dalgalarrondo, M., Danova, S., Iliev, I., Ivanova, I., CHOBERT, J. M., & Haertlé, T. (2007). Hydrolysis of major dairy proteins by lactic acid bacteria from Bulgarian yogurts. *Journal of Food biochemistry*, *31*(5), 680-702.

Vlasik, I., & Andronico, A. 2008. A bacterium was isolated from tap water filtered from PUR filtration water system. Various biological tests such as Urease test, Citrate test, MR-VP, MSA, Esculin Hydrolysis, and more were used to determine that our isolated organism from filtered tap water was Micrococcus varians. This organism is said to be a contaminant found on human skin; however, has also been detected in beach sand, and water. *Sierra College Journal of Microbiology*, 24.

Von Eiff, C. H. R. I. S. T. O. F., Herrmann, M., & Peters, G. (1995). Antimicrobial susceptibilities of Stomatococcus mucilaginosus and of Micrococcus spp. *Antimicrobial agents and chemotherapy*, *39*(1), 268-270.

Xu, X., & Kovács, Á. T. (2024). How to identify and quantify the members of the Bacillus genus?. *Environmental Microbiology*, *26*(2), e16593.

Yang, S. J., Dunman, P. M., Projan, S. J., & Bayles, K. W. (2006). Characterization of the Staphylococcus aureus CidR regulon: elucidation of a novel role for acetoin metabolism in cell death and lysis. *Molecular microbiology*, *60*(2), 458-468.