

DAFTAR PUSTAKA

- Abdollahzadeh J, Zare R, & Phillips AJL. 2013. Phylogeny and Taxonomy of *Botryosphaeria* and *Neofusicoccum* Species in Iran, with Description of *Botryosphaeria scharifii* sp. nov. *Journal Mycologia*, 105, 210–220.
- Alemu, K. 2014. Dynamics and Management of Major Postharvest Fungal Diseases of Mango Fruits. *Journal of Biology, Agriculture and Healthcare*, 4(27). www.iiste.org
- Al-Obaidi, J. R., Rahmad, N., & Hanafi, N. M. 2023. *Aspergillus niger* causing fruit rot disease on rose apple in Malaysia. *New Disease Reports*, 48(1). <https://doi.org/10.1002/ndr2.12216>
- Amalia, M. S., Herawati, W., dan Yani, E. 2022. Keanekaragaman Kultivar Mangga (*Mangifera indica* L.) Di Kabupaten Tangerang. *BioEksakta: Jurnal Ilmiah Biologi Unsoed*, 4, 91-98.
- Arti, I. M., dan Manurung, A. N. H. 2018. Pengaruh Etilen Apel dan Daun Mangga Pada Pematangan Buah Pisang Kepok (*Musa paradisiaca formatypica*). *Jurnal Pertanian Presisi (Journal of Precision Agriculture)*, 2(2), 77-88. <https://doi.org/10.35760/jpp.2018.v2i2.2514>
- Arti, I. M., Asnur, P., Kurniasih, R., & Ramdan, E. P. 2022. Identification, Pathogenesis and Virulence Test of Fungus Causes Postharvest Disease of Gedong Gincu Mango from Pal Market, Cimanggis, Depok. *Jurnal Pembelajaran dan Biologi Nukleus*, 8(2), 236–246. <https://doi.org/10.36987/jpbn.v8i2.2628>
- Badan Pusat Statistik. 2020. *Produksi Tanaman Buah-buahan 2020*. [diakses 2023 Oktober 28]. Tersedia pada: <https://www.bps.go.id/id/statistics-table/2/NjIjMg==/produksi-tanaman-buah-buahan.html>
- BPS. 2018. Badan Pusat Statistik. [diakses 2023 Oktober 30]. Tersedia pada: <https://bps.go.id/site/resultTab>
- Barnett, H., & Hunter, B. 2003. *Illustrated Genera of Imperfect Fungi*, 4th edition. American Phytopathological Society, St. Paul.
- Bashir, A. A., Egbeja, T. I., Namadina, M. M., Umar, S. U., Aminu, A., & Idakwo, J. 2022. Effects of Sodium Carbonate and Sodium Chloride on the Control of Black Rot Disease of *Mangifera indica* L. (Mango) Caused by *Aspergillus niger*. *Journal of Plant Sciences*, 17(4), 166–171. <https://doi.org/10.3923/jps.2022.166.171>
- Benatar, G. V., Nurhayati, Y., & Febryani, N. 2023. Identifikasi *Colletotrichum asianum* Penyebab Antraknosa Mangga Kultivar Golek di Indramayu. *Media Pertanian*, 8(1), 1–13. <https://doi.org/10.37058/mp.v8i1.6900>
- Bouket, A. C., Babaei-ahari, A., Belbahri, L., & Tojo, M. 2016. Morphological and Molecular Identification of Newly Recovered *Pythium* Species, *P. sylvaticum* and *P. glomeratum* from Iran, and Evaluation of Their Pathogenicity on Cucumber Seedlings. *Austrian Journal of Mycology*, 25.
- Chukunda, F. A., Baraka, R. E., & Azubuike, P. 2020. Post-harvest Diseases of Mango (*Mangifera indica* L.) Fruits in Port Harcourt, Nigeria. *Nigerian Journal of Mycology*,

12(2), 162–173.

- Crous, P. W., Braun, U., Schubert, K., & Groenewald, J. Z. 2014. Delimiting *Cladosporium* from Morphologically Similar Genera. *Studies in Mycology*, 58, 33–56. <https://doi.org/10.3114/sim.2007.58.02>
- Danh, L. T., Giao, B. T., Duong, C. T., Nga, N. T., Tien, D. T. K., Tuan, N. T.,...& Trang, T. X. 2021. Use of Essential Oils for the Control of Anthracnose Disease Caused by *Colletotrichum acutatum* on Post-Harvest Mangoes of Cat Hoa Loc Variety. *J. Membranes*, 11(719), 1-18
- Diana, N., & Majidah, L. 2019. Identifikasi Jamur *Rhizopus* sp. pada Buah Pepaya Jingga (*Carica papaya* L.). *Jurnal Insan Cendekia*, 6(1), 44-48.
- Direktorat Buah dan Florikultura. 2021. *Buku Lapang Budidaya Mangga* (1st ed.). Direktorat Jenderal Hortikultura Kementerian Pertanian.
- Ekwomadu, T. I., & Mwanza, M. 2023. Fusarium Fungi Pathogens, Identification, Adverse Effects, Disease Management, and Global Food Security: A Review of the Latest Research. In *Agriculture (Switzerland)*, 13,(9). Multidisciplinary Digital Publishing Institute (MDPI). <https://doi.org/10.3390/agriculture13091810>
- Ezeonuegbu, B. A., Abdullahi, M. D., Whong, C. M. Z., Sohunago, J. W., Kassem, H. S., Yaro, C. A., Hetta, H. F., Mostafa-Hedeab, G., Zouganelis, G. D., & Batiha, G. E. S. 2022. Characterization and Phylogeny of Fungi Isolated from Industrial Wastewater Using Multiple Genes. *Scientific Reports*, 12(1). <https://doi.org/10.1038/s41598-022-05820-9>
- Fitranto, R., Dwi Wahyono, N., & Wibisono, Y. 2020. Strategi Pengembangan Pemasaran Buah Mangga Arumanis 143 PT. Trigatra Rajasa Situbondo Jawa Timur. *Jurnal Agribisnis Indonesia*, 8(1), 58–68. <https://doi.org/10.29244/jai.2020.8.1.58-68>
- Frank, J., Crous, P. W., Groenewald, J. Z., Oertel, B., Hyde, K. D., Phengsintham, P., & Schroers, H. J. 2010. *Microcyclospora* and *Microcyclosporella*: Novel Genera Accommodating Epiphytic Fungi Causing Sooty Blotch on Apple. *Persoonia: Molecular Phylogeny and Evolution of Fungi*, 24, 93–105. <https://doi.org/10.3767/003158510X510560>
- Gadgile, D. 2017. Detection of Post-harvest Fungal Diseases of Mango by X-ray Scanning Non-destructive Technology. *Plant Pathology & Quarantine*, 7(1), 65–69. <https://doi.org/10.5943/ppq/7/1/8>
- Ichsan, M. C., & L. Wijaya. 2015. Karakter Morfologi dan Beberapa Keunggulan Mangga Arumanis (*Mangifera indica* L.). *J. Agritrop*, 13, 173–180.
- Jahurul, M. H. A., Zahidul, I. S. M., G. K., Al-Juhaimi F.Y, Nyam K.L, Norulaini N. A. N, Sahena F, & Omar A. K. M. 2015. Mango (*Mangifera indica* L.) by Products And Their Valuable Components. *A Review. Food Chem*, 183, 173180.
- Jenny, F., Sultana, N., Islam, M. M., Bhuiyan, M. M. K., & B., M. A. 2019. a Review on Anthracnose of Mango Caused By *Colletotrichum* a Review on Anthracnose of Mango Caused By *Colletotrichum*. *Bangladesh J. Plant Pathol*, 35(2), 65–74.
- Kausar, R., Iram, S., Ahmad, K. S., & Jaffri, S. B. (2021). Molecular characterization of *Fusarium solani* and *Fusarium oxysporum* phyto-pathogens causing mango maturity

- malconformation. Archives of Phytopathology and Plant Protection, 54(17-18), 1372-1390.
- Kucharek, T., & Mitchell, D. 2011. *Diseases of Agronomic and Vegetable Crops Caused by Pythium*.
- Li, S. N., & Zhang, W. M. 2023. Occurrence of Postharvest Fruit Rot of Mango Caused by *Fusarium pernambutanum* in China. *Plant Disease*, 107(8), 2526. <https://doi.org/10.1094/PDIS-02-23-0275-PDN>
- Li, W., Xiao, Y., Wang, C., Dang, J., Chen, C., Gao, L., Batzer, J. C., Sun, G., & Gleason, M. L. 2013. A New species of *Devriesia* Causing Sooty blotch and Flyspeck on Rubber Trees in China. *Mycological Progress*, 12(4), 733–738. <https://doi.org/10.1007/s11557-012-0885-z>
- Liu, C. Q., Hu, K. Di, Li, T. T., Yang, Y., Yang, F., Li, Y. H., Liu, H. P., Chen, X. Y., & Zhang, H. 2017. Polygalacturonase gene *pgxB* in *Aspergillus Niger* is a Virulence Factor in Apple Fruit. *PLoS ONE*, 12(3), 43. <https://doi.org/10.1371/journal.pone.0173277>
- Liu, J., Yang, L., Zhou, J., Cai, G., Li, X., & Lu, J. 2019. *Alternaria alternata* Causing Postharvest Fruit Rot of *Mangifera indica* in China. *Plant Disease*, 103(10), 2683. <https://doi.org/10.1094/PDIS-04-19-0801-PDN>
- Mahata, P. K., Dass, R. S., Pan, A., & Muthusamy, B. 2022. Substantive Morphological Descriptions, Phylogenetic Analysis and Single Nucleotide Polymorphisms of *Aspergillus* Species from *Foeniculum Vulgare*. *Frontiers in microbiology*, 13, 832320.
- Mailafia, S., Okoh, G. R., Hamza, O., Olabode, K. & Osanupin, R. 2017. Isolation and Identification of Fungi Associated with Spoilt Fruits Vended in Gwagwalada Market, Abuja, Nigeria. *Vet. World*, 10 (3) 93-397.
- Maknun L, Supyani, Hadiwiyono, Tjahjono B. 2019. Keberadaan Mikrovirus Berdasarkan Deteksi Berbasis RNA pada *Colletotrichumhipovirulen*. *Agrotech Res J*. 3(1): 50-55.
- Maldonado-Celis, M. E., Yahia, E. M., Bedoya, R., Landázuri, P., Loango, N., Aguillón, J., Restrepo, B., & Guerrero Ospina, J. C. 2019. Chemical Composition of Mango (*Mangifera indica* L.) Fruit: Nutritional and Phytochemical Compounds. In *Frontiers in Plant Science* (Vol. 10). Frontiers Media S.A. <https://doi.org/10.3389/fpls.2019.01073>
- Misra, O., Misra, A. K., & Shukla, P. K. 2011. Post harvest diseases of mango. Global Conference on Augmenting Production and Utilization of Mango: Biotic and Abiotic Stresses, 137–144. <https://www.researchgate.net/publication/311886586>
- Nadapdap, H. J., Bobby, D., & Saefudin, R. 2020. Risiko Usahatani Mangga di Kecamatan Rembang Jawa Tengah Risk of Mango Farming in Kragan Subdistrict Rembang. *Jurnal Penelitian Pertanian Terapan*, 20(2), 161–169. <https://doi.org/10.25181/jppt.v120i2.1592>
- Navi, S. S., Huynh, T., Mayers, C. G., & Yang, X.-B. 2019. Diversity of *Pythium* spp. Associated with Soybean Damping-off, and Management Implications by Using Foliar Fungicides as Seed Treatments. *Phytopathology Research*, 1(1). <https://doi.org/10.1186/s42483-019-0015-9>

- Nóbrega, T. F., Ferreira, B. W., & Barreto, R. W. 2022. First Report of *Pythium aphanidermatum* Causing Fruit Rot of *Cucumis anguria*. *Australasian Plant Disease Notes*, 17(1). <https://doi.org/10.1007/s13314-022-00464-0>
- Nuangmek, W., Kumla, J., Khuna, S., Lumyong, S., & Suwannarach, N. 2023. Identification and Characterization of *Fusarium* Species Causing Watermelon Fruit Rot in Northern Thailand. *Plants*, 12(4). <https://doi.org/10.3390/plants12040956>
- Oktavianto, Y., Sunaryo, & Suryanto, A. (2015). Karakterisasi Tanaman Mangga (*Mangifera Indica* L.) Canteak, Ireng, Empok, Jempol di Desa Tiron, Kecamatan Banyakan, Kabupaten Kediri. *Jurnal Produksi Tanaman*, 3(2), 91–97.
- Pánek, M., & Strížková, I. 2021. A Comparison of the Virulence of Selected *Pythium*, *Globisporangium*, *Phytophythium* and *Phytophthora* Species Against Strawberry Plants. *Journal of Plant Diseases and Protection*, 128(6), 1447–1458. <https://doi.org/10.1007/s41348-021-00531-1>
- Prakash, O., Misra, A. K., & Shukla, P. K. 2011. Post Harvest Diseases of Mango. *Global Conference on Augmenting Production and Utilization of Mango: Biotic and Abiotic Stresses*, 137–144. <https://www.researchgate.net/publication/311886586>
- Praja, RN & Yudhana, A. 2017. Isolasi dan Identifikasi *Aspergillus* spp. pada Paru-Paru Ayam Kampung yang Dijual di Pasar Banyuwangi. *Jurnal Medik Veterinereissn*, 1(1), hal. 6-11
- Pratiwi, N.W., Juliantari, E., & Napsiyah, L. K. 2016. Identifikasi Jamur Penyebab Penyakit Pascapanen pada Beberapa Komoditas Bahan Pangan. In *Jurnal Riau Biologia*, 1 (14).
- Purnama, I. N., & Sarma, M. 2016. Strategi Peningkatan Pemasaran Mangga di Pasar Internasional. *J. Hort*, 24(1), 85–93.
- Rehman, A., Ullah Malik, A., Ali, H., Rehmani, M., Waqar Alam, M., Sarfraz, B., Malik, A., Ali, H., & Alam, M. 2015. Preharvest Factors Influencing the Postharvest Disease Development and Fruit Quality of Mango. In *Journal of Environmental and Agricultural Sciences*, (3). <https://www.researchgate.net/publication/275582873>
- Sadri, M., Adelina, E., & Samudin, S. 2017. Identification of Morphological and Anatomical Characters of Local Mango Plant (*Mangifera* spp.) of Morowali in Bente and Bahomoleo Villages Central Subdistrict of Bungku. In *J. Agroland*, 24 (2).
- Samson, RA, Houbraken, J, Thrane, U, Frisvad, JC & Andersen, B. 2010. *Food and Indoor Fungi*. CBS-KNAW Fungal Biodiversity Centre, Utrecht.
- Santoso, A. 2023. Rumus Slovin: Panacea Masalah Ukuran Sampel. *Suksma: Jurnal Psikologi Universitas Sanata Dharma*, 4(2), 24-43. <https://doi.org/10.24071/suksma.v4i2.6434>
- Sari, W., Wiyono, S., Nurmansyah, A., Munif, A., & Poerwanto, R. 2018. Keanekaragaman dan Patogenisitas *Fusarium* spp. Asal Beberapa Kultivar Pisang. *Jurnal Fitopatologi Indonesia*, 13(6), 216. <https://doi.org/10.14692/jfi.13.6.216>
- Savika Amalia, M., Herawati, W., & Yani, E. 2022. Keanekaragaman Kultivar Mangga (*Mangifera indica* L.) di Kabupaten Tangerang. *Jurnal Ilmiah Biologi Unsoed*, 4.
- Setiawati, R. A, Rahmawati, R., & Wardoyo, E. R. P. 2020. Isolasi dan Identifikasi Jamur

- Pascapanen Penyebab Busuk Buah Pisang Ambon (*Musa paradisiaca* L.). *Jurnal Protobiont*, 9(2), 125–131.
- Simamora, A. V., Henuk, J. B. D., Nenotek, P. S., Hahuly, M. V., Serangmo, D. Y. L., & Kapitan, W. 2022. *Identifikasi Jamur Pascapanen pada Buah Tomat yang Dijual di Beberapa Pasar Tradisional di Kupang*. 11(2), 54–65.
- Statista. 2023. *Export value of mango from Indonesia from 2016 to 2022 (in million U.S. dollars)*. [diakses 2023 November 2020]. Tersedia pada: <https://www.statista.com/statistics/1295512/indonesia-mango-export-value>
- Suseno, S. M., Siregar, B. M., Batubara, R. 2016. Respon *Cylindrocladium* sp. terhadap Fungisida Berbahan Aktif Metiram secara *In vitro*. *Disertasi*, Universitas Sumatera Utara.
- Sutopo, A., Poerwanto, R., & Wiyono, S. 2017. Keefektifan Bahan Pencuci dan Pencegah Penyakit Terhadap Kualitas Buah Mangga cv. Gedong Gincu dan Arumanis. *J. Hotikultura*, 27(2), 253-260.
- Syngenta. 2023. Mango Stem-End Rot. [diakses 2023 Desember 09]. Tersedia pada: <https://www.syngenta.com.ph/disease/mango-stem-end-rot>
- Te, Chen. 2023. Mango. [diakses 2023 Desember 29]. Tersedia pada: <https://www.pexels.com/id-id/foto/makanan-pasar-buah-berair-16850673/>
- Tovar-Pedraza, J. M., Mora-Aguilera, J., Nava-Diaz, C., Lima, N., Michereff, S., Sandoval-Islas, J., . . . Leyva-Mir, S. 2020. Distribution and Pathogenicity of *Colletotrichum* Species Associated With Mango Anthracnose in Mexico. *J. Plant Disease*, 104(1), 137-146.
- Trakunyingcharoen, T., Cheewangkoon, R., To-Anun, C., Crous, P. W., Van Niekerk, J. M., & Lombard, L. (2014). Botryosphaeriaceae associated with diseases of mango (*Mangifera indica*). *Australasian Plant Pathology*, 43(4), 425–438. <https://doi.org/10.1007/s13313-014-0284-9>
- Tsatsia, H., & Jackson, G. 2021. Mango Anthracnose. [diakses 2023 November 02]. Tersedia pada: https://apps.lucidcentral.org/pppw_v10/text/web_full/entities/mango_anthracnose_009.htm
- [USDA] United States Department of Agriculture . 2019. *Mangos raw*. [diakses 2023 November 02]. Tersedia pada: <https://fdc.nal.usda.gov/fdc-app.html#/food-details/169910/nutrients>
- Utami, S., Baskoro, K., Khotimperwati, L., & Murningsih, D. 2019. *Keragaman Varietas Mangga (*Mangifera indica* L.) di Kotamadya Semarang Jawa Tengah Diversity of Mango Varieties (*Mangifera indica* L.) In the Municipality of Semarang, Central Java* (Vol. 21, Issue 2).
- Uzuhashi, S., Okada, G., & Ohkuma, M. 2015. Four New *Pythium* Species from Aquatic Environments in Japan. *Antonie van Leeuwenhoek, International Journal of General and Molecular Microbiology*, 107(2), 375–391. <https://doi.org/10.1007/s10482-014-0336-8>
- Varta, V., Managanvi, K., Magadum, S., & Sarkhel, S. 2022. Post-harvest Diseases of

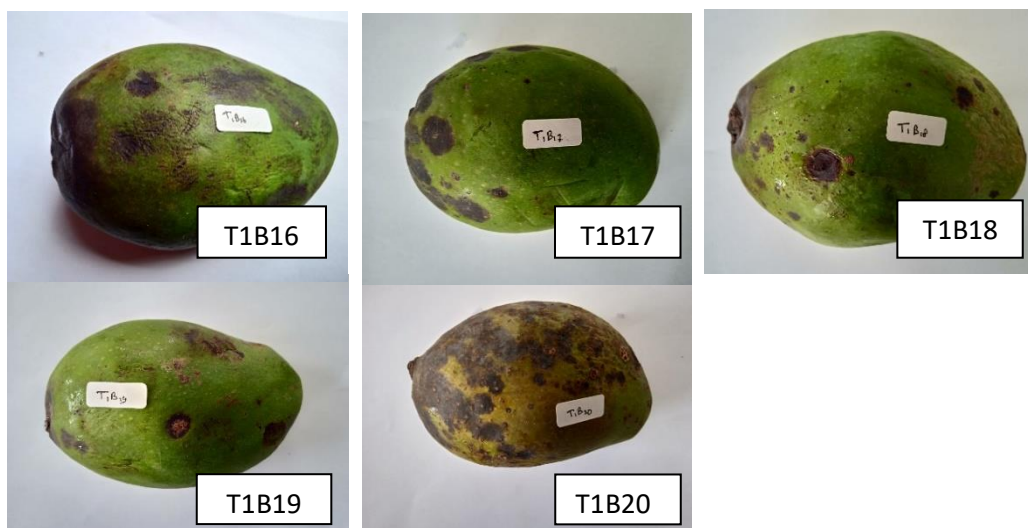
- Mango and their Integrated Management. *Vigyan Varta*, 3(12), 5–9. www.vigyanvarta.com
- Watanabe, T. 2010. *Pictorial Atlas of Soil and Seed Fungi, Morphologies of Cultured and Key to Species* (2nd ed.). CRC Press.
- Widiastuti, A., Ningtyas, O. H., & Priyatmojo, A. 2015. *Identifikasi Cendawan Penyebab Penyakit Pascapanen pada Beberapa Buah di Yogyakarta Identification of Fungus Causing Postharvest Disease on Several Fruits in Yogyakarta*. 11, 91–96. <https://doi.org/10.14692/jfi.11.3.91>
- Wu, C.-J., Chen, H.-K., & Ni, H.-F. 2020. Identification and Characterization of *Colletotrichum* Species Associated with Mango Anthracnose in Taiwan. *European Journal of Plant Pathology*, 157(1), 1–15. <https://doi.org/10.1007/s10658-020-01964-4>
- X. Z. Yang, Y. B. Wang, S. C. Li, F. Wu, Z. Y. Luo, J. Y. Chen, M. L. Xiang, & M. Chen. 2023. First Report of *Fusarium tricinctum* Causing Fruit Rot on Navel Orange (*Citrus sinensis*) in China. *The American Phytopathological Society*, 107(2), 567. <https://doi.org/10.1094/PDIS>
- Xu, X., Zhang, L., Yang, X., Shen, G., Wang, S., Teng, H., Yang, C., Liu, X., Wang, X., Zhao, J., & Xiang, W. 2022. *Fusarium* Species Associated with Maize Leaf Blight in Heilongjiang Province, China. *Journal of Fungi*, 8(11). <https://doi.org/10.3390/jof8111170>
- Zakaria, L. 2023. *Fusarium* Species Associated with Diseases of Major Tropical Fruit Crops. In *Horticultura*, 9(3).MDPI. <https://doi.org/10.3390/horticulturae9030322>

LAMPIRAN

Lampiran 1. Sampel penelitian

1.1 Toko 1



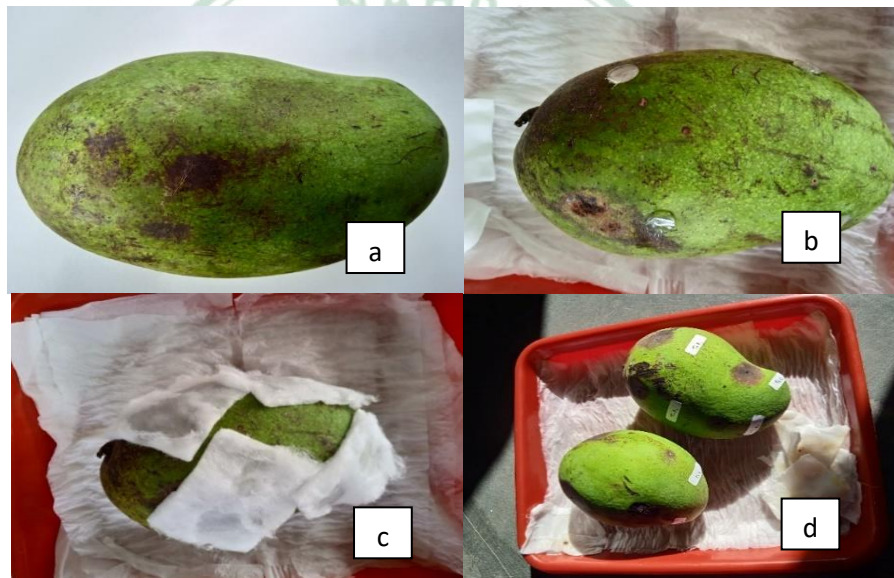


1.2 Toko 2





Lampiran 2. Uji Postulat Koch



Keterangan: a) buah mangga sehat, b) buah mangga yang telah diberi pelukaan dan diinokulasikan inokulum jamur patogen, c) sampel diinokulasi patogen dan diinkubasi dengan kapas untuk menjaga kelembapan d) gejala yang muncul setelah diinokulasi dan diinkubasi.

Lampiran 3. Kegiatan di laboratorium



Keterangan: a) pembuatan media PDA, b) sterilisasi alat dan bahan menggunakan autoclave, c) isolasi sampel mangga, d) pembuatan kultur murni.

