



DAFTAR PUSTAKA

- Andyarini, E.N., dan Hidayati, I. 2017. Analisis proksimat pada tepung biji nangka (*Artocarpus heterophyllus* Lamk.). *KLOROFIL*. 1(1): 32-37.
- Atmosoedarjo, K., Kaomini., Saleh., Moerdoko., Pramoedibyo dan Ranoeprawiro. 2000. Sutra Alam Indonesia. Yayasan Sarana Wana Jaya. Yogyakarta.
- Birari,V.V., Siddhapara M ., dan Patel, D .H. 2019. Biology of eri silkworm, *Samia ricini* on castor *Ricinus communis*. *Entomon*. 44(3): 229-234.
- Behmer, S.T. 2006. *Insect Dietary Needs: Plants as Food for Insects*. Texas A & M University, College Station: Texas.
- Brahma, D., Swargiary, A., dan Dutta, K. 2015. Acomparative study on morphology and rearing performance of *Samia ricini* and *Samia canningi* crossbreed with reference to different food plants. *Journal of Entomology and Zoology Studies*. 3(5): 12-19.
- Buckle, K., Edwards, R.A., Fleet, G.H., dan Wcotton, M. 1987. *Food Sciences, Penerjemah Hari Purnomo dan Adiono dalam Ilmu Pangan*. Universitas Indonesia Press. Jakarta.
- Cappellozza, S., Saviane, A., dan Sbrenna, G. 2005. Artificial diet rearing system for the silkworm, *Bombyx mori* (Lepidoptera: Bombycidae): Effect of vitamin-C deprivation on larval growth and cocoon production. *Applied Entomology and Zoology*. 40(3): 405-412.
- Chutia, P., Kumar, R., dan Khanikar, D.P. 2014. Host plants relationship in terms of cocoon colour and compactness eri silkworm (*Samia ricini*). *Biological Forum*. 6(2): 340-343.
- Coudron, T.A., Goodman, C.L., Jones, W., dan Leopold, R. 2004. Development of an artificial diet and evaluation of artificial ovipositional substrates for the in vitro rearing of *Gonatocerus* spp. Parasitoids of the eggs of the glassy-winged sharpshooter. *Bulletin Agricultural Research Service*. pp. 304-305.
- Fukuda, T., Higuchi, Y., dan Matsuda, M. 1960. Artificial food for eri silkworm. *Indian Journal Sericulture*. 1(1): 12-16.
- Gameriawati, V., dan Amir, M. 2000. Beberapa aspek biologi *Telenomus* sp. (Hymenoptera: Scelionidae) sebagai寄生虫 telur penggerek kuning padi *Scirpophaga incertulas* (Lepidoptera: Pyralidae). *Berita Biologi*, 5(2): 217.
- Ghanim, A.A., El-Serafy, H.A., Hassan, H.A., Mohamed, N.E., dan El Matti, F.B.A. 2021. Biological aspects of two coccinellid predatory insects reared on artificial diets and natural preys under constant temperature. *Journal of Plant Protection and Pathology*. 12(1): 19-22.
- Gokulakrishnaa, R.K., dan Thirunavukkarasu, S. 2023. Efficacy of artificial diet on economic parameters of eri silkworm (*Samia ricini* Donovan). *Uttar Pradesh Journal of Zoology*. 4(7): 32-36.
- Hadi, P dan Rustiono, D. 2015. Silkworm agribusiness in bejen village temanggung. *International Journal of Agriculture Innovations and Research*. 3(5): 1592-1594.



- Indrawan, M. 2007. Karakter sutra dari ulat jedug (*Attacus atlas L.*) yang dipelihara pada tanaman pakan senggugu (*Clerodendron serratum*). *Jurnal Biodiversitas*. 8(3): 215-217.
- Jolly, M.S., Sen, S.K., Sonwalkar, T.N., dan Prasad, G.K. 1979. Manuals on sericulture: nonmulberry silks. *FAO Agricultural Services Bulletin: Food & Agriculture Organization of the United Nations*. 4(29): 160-162
- Jumar, F.A. 2000. *Le commerce atlantique au Rio de la Plata 1680-1778*. EHESS. Paris.
- Kanost, M.R. 2009. *Encyclopedia of Insects*. Academic Press. United Kingdom.
- Karnataka. 2009. Performance of eri silkworm, *Samia cynthia ricini* Boisd on few food plants. *Journal of Agricultural Science*. 22(1): 220-221.
- Kikuchi, Y., S. Hotta dan Y. Higuchi. 1980. Studies on the artificial dry food for non-mulberry silkworm. Study and utilization of non-mulberry silkworms: *Symposium in XVI International Congress of Entomology*. Pp: 3338.
- Lalitha, N., Singha, B.B., Das, B., dan Choudhury, B. 2020. Impact of climate change in prospects of eri silkworm seed production in assam- a review. *Innovative Farming*. 5(1): 10-14.
- Landoni, M., Bertagnon, G., Ghidoli, M., Cassani, E., Adani, F., dan Pilu, R. 2023. Opportunities and challenges of castor bean (*Ricinus communis L.*) genetic improvement. *Agronomy*. 13(8): 1-20.
- Liaw, G.J. 1990. Application of artificial diet to the rearing of domesticated silkworm, *Bombyx mori* L., *Chinese Journal Entomology*. 5: 37-45.
- Lisa, C. 2019. Karakteristik Kokon Ulat Sutra Eri (*Samia cynthia ricini*) Berdasarkan Corak Tubuh Ulat Yang Berbeda. *Skripsi*. Bogor: Fakultas Peternakan Institut Pertanian Bogor.
- Mulyani, N. 2008. Biologi *Attacus atlas* L. (Lepidoptera: Saturniidae) dengan Pakan Daun Kaliki (*Ricinus communis* L.) dan Jarak Pagar (*Jatropha curcas* L.) di Laboratorium. *Disertasi*. Bogor: Sekolah Pasca Sarjana, Institut Pertanian Bogor.
- Magro, S.R., Dias, A.B., Terra, W.R., dan Parra, J.R.P. 2006. Biological, nutritional and histochemical basis for improving an artificial diet for *Bracon hebetor* Say. (Hymenoptera: Braconidae). *Neotrop. Entomol.* 35: 215-222.
- Manganmal, P., dan Devi, G.S. Influence of artificial diet on larvae of eri silkworm, *Samia cynthia ricini* Boisduval. *Madras Agriculture Journal*. 99: 4-6.
- Moise, A.R., Pop, L.L., Vezeteu, T.V., Domut, B., Agoston., Pasca, C., dan Dezminean, D.S. 2020. Artificial diet of silkworms (*Bombyx mori*) improved with bee pollen – biotechnological approach in global centre of excellence for advanced research in sericulture and promotion of silk production. *Bulletin UASVM Animal Science and Biotechnologies*. 77(1): 51-57.
- Moore, R.F. 1985. *Artificial diets: Development and Improvement* In: Singh P and Moore RF (Eds). *Handbook of Insect Rearing Vol 1*. Elsevier. New York.



- Nijhout, H.F. 1975. Size and shape: the developmental regulation of static allometry in insects. *BioEssays*, 29 (6): 536-548.
- Nurkomar, I., Trisnawati, D.W., dan Arrasyid, F. 2022. Life cycle and survivorship of eri silkworm, *Samia cynthia ricini* biosduval (Lepidoptera: saturniidae) on three cassava leaves diet. *Serangga*. 27(1): 94-105.
- Paudel, A., Panthee, S., Hamamoto, H., dan Sekimizu K. 2020. A simple artificial diet available for research of silkworm models. *Drug Discoveries & Therapeutics*. 14(4): 177-180.
- Prihatin, J dan Situmorang, J. 2001. Artificial diet using cashew leaves and pollen for golden silkworm *Cricula trifenestrata* helf. (Lepidoptera: Saturniidae) rearing. Yogyakarta: Conference of wild silkmoths: 23-26 April 2002.
- Radjabi, R. 2010. Effect of mulberry leaves enrichment with amino acid supplementary nutrients on silkworm, *Bombyx mori* L. at north of Iran. *Jurnal of Entomology*. 3 (1): 45-51.
- Renuka, G dan Shamita, G. 2014. Studies on the economic traits of eri silkworm *Samia cynthia ricini* in relation to seasonal variations. *International Journal of Advanced Research*. 2(2): 315-332.
- Singh, P. 1982. *Artificial Diet for Insect, Mites and Spiders* (2nd ed). IFI/Plenum. New York.
- Singh, K.C dan Benchamin, K.V. 2002. Biology and ecology of the silkworm *Samia ricini* (Donovan) (Satuniidae): a review. *Bulletin of Indian Academy of Sericulture*. 6:20-33.
- Situmorang, J. 1997. An attempt to produce *Attacus atlas* L., using baringtonia leaves as plant fooder. *International Journal Wild Silk moth*. pp.55-57.
- Sober, V., Sandre, S.L., Esperk, T., Teder, T., dan Tammaru, T. 2019. Ontogeny of sexual size dimorphism revisited: females grow for a longer time and also faster. *Journal Plos ONE*. 14(4): 1-14.
- Sukirno., Situmorang, J., Sumarmi, S., Soesilohadi, R.C.H., dan Pratiwi, R. 2013. Artificial diets for *Attacus atlas* (Lepidoptera: Saturniidae) in yogyakarta special region, Indonesia. *Journal of Economic Entomology*. 106(6): 2364-2370.
- Sumida, M., Yuhki, T., Chen, R., Mori, H., Imamura, T. dan Matsubara, F. 1995. Aseptic rearing of original silkworm strains on an artificial diet throughout the entire larval instars. *Journal of Sericultural Science*. 64(1): 35-38.
- Trager, W. 1953. *Nutrition*. New York: Wiley. Inc
- Tulu, D., Aleme, M., Mengistu, G., Bogale, A., Shifa, K., dan Mendesil, E. 2022. Evaluation of castor (*Ricinus communis L.*) genotypes and their feeding values on rearing performance of eri silkworm (*Samia cynthia ricini* Boisduval) (Lepidoptera: Saturniidae) in southwest Ethiopia. *Hindawi Physche: A Journal of Entomology*. 2022:7.
- Vaishali, B.V., Joshi, J.M., Solanki, C.B., dan Raj, P.V. 2020. Eri silkworm (*Samia ricini*): life cycle and their enemies. *Agriculture and Food*. 2(3): 549-551.
- Waterborg, J.H. 2009. The Lowry Method for Protein Quantitation. In: Walker, J.M. The Protein Protocols Handbook. Springer Protocols Handbook. Humana Press. New Jersey.



UNIVERSITAS
GADJAH MADA

Formulasi Artificial Diet Berbasis Daun Jarak Kepyar (*Ricinus communis L.*) Untuk Budi Daya Ulat Sutra Eri (*Samia cynthia Drury, 1773*) (Lepidoptera: Saturniidae)

Siti Shofa Assyifa'ul Qulbi Barid, Sukirno, S.Si., M.Sc., Ph.D.

Universitas Gadjah Mada, 2024 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Wyatt, G.R., Loughheed, T.C., dan Wyatt, S.S. 1956. Organic components of the hemolymph of the silkworm, *Bombyx mori* and two other species. *The Journal of General Physiology*. 39(6): 853-868.

Zhou, B dan Wang, H. 2020. Structure and functions of cocoons constructed by eri silkworm. *Polymers*. 12 (2701): 1-18.