

**Isolasi dan Identifikasi Mikroflora Internal Pada Fase Larva, Pupa dan Dewasa
Graphium agamemnon.**

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Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam Universitas Pendidikan
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Sebuah skripsi yang diajukan untuk memenuhi salah satu syarat memperoleh gelar Sarjana Sains pada Program Studi Biologi Departemen Pendidikan Biologi Fakultas Pendidikan Matematika dan Ilmu Pengetahuan Alam

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**ISOLASI DAN IDENTIFIKASI MIKROFLORA INTERNAL PADA FASE
LARVA, PUPA DAN DEWASA (*Graphium agamemnon*)**

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ABSTRAK

Isolasi dan Identifikasi Mikroflora Internal Pada Fase Larva, Pupa dan Dewasa *Graphium agamemnon*

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Serangga merupakan hewan yang paling melimpah di bumi. Hal tersebut dipengaruhi oleh beberapa faktor yang salah satunya adalah asosiasinya dengan mikroflora. Asosiasi mikroflora pada serangga memiliki peran yang sangat penting. Kupu-kupu merupakan serangga yang memiliki beberapa manfaat bagi manusia dan alam. *Graphium agamemnon* merupakan salah satu jenis kupu-kupu yang memiliki beberapa manfaat bagi manusia seperti nilai ekonomi dan edukasi karena mempunyai bentuk tubuh, corak warna yang indah serta siklus hidupnya yang melalui beberapa fase. *Graphium agamemnon* termasuk rentan terhadap gangguan seperti ketersediaan tumbuhan inang, predator, parasit dan patogen sehingga diketahui *Graphium agamemnon* merupakan salah satu jenis kupu-kupu yang telah banyak dikonservasi. Berdasarkan pentingnya peran mikroflora pada *Graphium agamemnon* bagi kelangsungan hidupnya, sehingga diperlukan isolasi dan identifikasi mikroflora internal pada fase larva, pupa dan dewasa dalam menunjang upaya konservasi. Tujuan dari penelitian ini adalah untuk mengisolasi dan identifikasi mikroflora internal yang terdapat pada fase larva, pupa dan dewasa *Graphium agamemnon*. Penelitian ini termasuk kedalam penelitian deskriptif yang akan mendeskripsikan mikroflora internal pada fase larva, pupa dan dewasa *Graphium agamemnon* dengan cara mengisolasi dan identifikasi mikroflora internal meliputi identifikasi makroskopis, mikroskopis dan uji biokimia. Hasil penelitian menunjukkan bahwa mikroflora yang terdapat pada fase larva adalah *Bacillus sp.*, *Klebsiella sp.*, *Erwinia sp.*, *Staphylococcus sp.*, *Acinetobacter sp.*, dan *Corynebacterium sp.* pada fase pupa hanya terdapat *Staphylococcus sp.*, dan pada fase dewasa terdapat *Bacillus sp.*, *Staphylococcus sp.* dan *Acinetobacter sp.*

Kata kunci : Mikroflora Internal, *Graphium agamemnon*, Isolasi, Identifikasi, Larva, Pupa, Dewasa

ABSTRACT

Isolation and Identification Internal Microflora in Larvae, Pupae and Adult Stages of *Graphium agamemnon*

Johar Arifin

Insect are the most abundant animal on earth. This is influenced by several factors, one of which is its association with microflora. The association of microflora in insects has a very important role. Butterflies are insects that have several benefits for humans and nature. *Graphium agamemnon* are one type of Butterflies that has benefits for humans such as economic dan educational value because its morphology, color patterns and life cycle that through several stages. *Graphium agamemnon* is susceptible to disturbances such as the availability of host plants, predators, parasites dan pathogens so that it is known that *Graphium agamemnon* is one type of butterfly that has been conserved. Based on the important role of microflora association in *Graphium agamemnon* for its survival, it is necessary to isolate and identify internal microflora in the larvae, pupae and adult stages to supporting conservation efforts. The aim of this study is to isolate and identify internal microflora in larvae, pupae, adult stages of *Graphium agamemnon*. This research is a descriptive study that will describe the internal microflora in larvae, pupa and adult stages of *Graphium agamemnon* by isolating and identifying internal microflora including macroscopic, microscopic identification and biochemical test. The result of this study showed that internal microflora of larvae is *Bacillus sp.*, *Klebsiella sp.*, *Erwinia sp.*, *Staphylococcus sp.*, *Acinetobacter sp.*, and *Corynebacterium sp.*, microflora of pupae is *Staphylococcus sp.* and the microflora in adult is *Bacillus sp.*, *Staphylococcus sp.* and *Acinetobacter sp.*

Keywords : Internal Microflora, *Graphium agamemnon*, Isolation, Identification, Larvae, Pupae, Adult

DAFTAR ISI

KATA PENGANTAR	v
UCAPAN TERIMAKASIH.....	vi
ABSTRAK	vii
ABSTRACT	viii
DAFTAR ISI.....	ix
DAFTAR TABEL.....	xii
DAFTAR GAMBAR	xiii
DAFTAR LAMPIRAN.....	xiv
BAB I PENDAHULUAN.....	1
1.1 Latar Belakang	1
1.2 Rumusan Masalah	4
1.3 Pertanyaan Penelitian	4
1.4 Batasan Masalah.....	4
1.5 Tujuan Penelitian.....	4
1.6 Manfaat Penelitian	5
1.7 Struktur Organisasi Penelitian.....	5
BAB II EKOLOGI <i>Graphium agamemnon</i> DAN MIKROFLORA PADA SERANGGA	7
2.1 Klasifikasi <i>Graphium agamemnon</i>	7
2.2 Persebaran dan Tanaman Inang <i>Graphium agamemnon</i>	7
2.3 Siklus Hidup dan Morfologi <i>Graphium agamemnon</i>	9
2.3.1 Fase Telur	9
2.3.2 Fase Larva	9
2.3.3 Fase Pupa.....	10
2.3.4 Fase Dewasa	10
2.4 Struktur Alat Pencernaan Pada Serangga Sebagai Tempat Asosiasi	

	Dengan mikroflora	11
2.5	Faktor-Faktor Yang Memengaruhi Kelangsungan Hidup Kupu-Kupu.....	12
2.6	Mikroflora Internal dan Perannya Bagi Serangga.....	13
2.7	Faktor yang Memengaruhi Asosiasi Mikroflora Pada Serangga	14
2.8	Jenis Mikroflora Pada Lepidoptera	15
2.9	Klasifikasi Mikroflora Pada Serangga	16
2.10	Kunci Determinasi Identifikasi Mikroflora.....	17
	2.10.1 Bakteri Gram Negatif	18
	2.10.2 Bakteri Gram Positif.....	19
 BAB III METODE PENELITIAN.....		20
3.1	Jenis Penelitian	20
3.2	Desain Penelitian.....	20
3.3	Waktu dan Tempat Penelitian	21
3.4	Populasi dan Sampel	21
3.5	Alat dan Bahan	21
3.6	Prosedur Penelitian.....	21
	3.6.1 Persiapan Alat dan Bahan.....	22
	3.6.2 Pembuatan Bahan dan Media	22
	3.6.3 Pengambilan Spesimen.....	22
	3.6.4 Pengamatan Anatomi Saluran Pencernaan	22
	3.6.5 Penelitian Pendahuluan	22
	3.6.6 Isolasi Mikroflora	23
	3.6.7 Identifikasi Makroskopis dan Mikroskopis.....	24
	3.6.8 Uji Biokimia	25
	3.6.8.1 Uji Katalase	25
	3.6.8.2 Uji Oksidase	25
	3.6.8.3 Uji Fermentasi Karbohidrat	25
	3.6.8.4 Uji Reduksi Nitrat	26

3.6.8.5 Uji SIM	26
3.6.8.6 Uji MRVP	26
3.6.8.7 Uji Sitrat	27
3.6.8.8 Uji Urease	27
3.7 Alur Penelitian.....	28
3.8 Analisi Data.....	29
BAB IV HASIL DAN PEMBAHASAN	30
4.1 Hasil Isolasi dan Identifikasi Mikroflora Internal Pada Fase Larva	30
4.2 Hasil Isolasi dan Identifikasi Mikroflora Internal Pada Fase Pupa.....	45
4.3 Hasil Isolasi dan Identifikasi Mikroflora Internal Pada Fase Dewasa .	48
4.4 Perbandingan Mikroflora Internal Pada Setiap Fase.....	55
BAB V SIMPULAN, IMPLIKASI, DAN SARAN.....	57
5.1 Kesimpulan.....	57
5.1 Implikasi.....	58
5.2 Saran.....	58
DAFTAR PUSTAKA	59
LAMPIRAN.....	67

DAFTAR PUSTAKA

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