LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU *PEER REVIEW*
KARYA ILMIAH : JURNAL ILMIAH

Judul Jurnal Ilmiah (Artikel)	:	Sulfur-Containing Carotenoids from A Marine Coral Symbiont Erythrobacter flavus Strain KJ5		
Jumlah Penulis	:	7 orang		
Status Pengusul	:	penulis anggota		
Identitas Jurnal Ilmiah	:	a. Nama Jurnal	:	Marine Drugs
		b. Nomor ISSN	:	ISSN 1660-3397 (Online)
		c. Vol, No., Bln Thn	:	Volume 17, No. 6, June 2019
		d. Penerbit	:	MDPI
		e. DOI artikel (jika ada)	:	doi:10.3390/md17060349
		f. Alamat web jurnal	:	https://www.mdpi.com/1660-3397/17/6/349
		Alamat Artikel	:	https://www.mdpi.com/1660-3397/17/6/349/pdf
		g. Terindex	:	Scopus

Kategori Publikasi Jurnal Ilmiah (beri ✓pada kategori yang tepat) :
- [√] Jurnal Ilmiah Internasional
- [ ] Jurnal Ilmiah Nasional Terakreditasi
- [ ] Jurnal Ilmiah Nasional Tidak Terakreditasi

Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	4,00	3,20	3,60
b. Ruang lingkup dan kedalaman pembahasan (30%)	12,00	11,00	11,50
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	11,50	11,20	11,35
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	12,00	11,20	11,60
Total = (100%)	39,50	36,60	38,05
Nilai Pengusul = (60% x .....) = ...			

0,4 x 38,05 = 15,22

15,22 / 6 = 2,53

Semarang, 12 - 6 - 2019

Reviewer 1

Prof. Dr. Ir. Agus Sabdono, M.Sc
NIP. 195806151985031001
Unit Kerja : FPIK UNDIP

Reviewer 2

Prof. Dr. Ir. Johannes Hutabarat, M.Sc
NIP. 195103231976031001
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Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional [√]	Nasional Terakreditasi [ ]	Nasional Tidak Terakreditasi [ ]	
a. Kelengkapan unsur isi jurnal (10%)	4.00			4,0
b. Ruang lingkup dan kedalaman pembahasan (30%)	12.00			12,0
c. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12.00			11,5
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12.00			12,0
Total = (100%)	**40.00**			39,5
Nilai Pengusul = 40% x 39,5 = 2,63				

Catatan Penilaian artikel oleh Reviewer :

1. **Kesesuaian dan kelengkapan unsur isi jurnal:**
   Sistematika artikel sesuai "Guide to Author" (Abstract, Introduction, Material and Methods, Results and Discussion, Conclusion, Acknowledgement, References). Ada kesesuaian antara judul dan substansi.
2. **Ruang lingkup dan kedalaman pembahasan:**
   Tingkat kedalaman BAIK, dari 64 sitasi pustaka, 45 buah digunakan untuk membahas hasil penelitian (70%). Substansi artikel sesuai dengan bidang ilmu pengusul.
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
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4. **Kelengkapan unsur dan kualitas terbitan:**
   Jurnal internasional terindeks Scopus dengan nilai SJR = 0,86 (Q2) dengan Hindeks = 84, dengan kualitas jurnal sangat baik.

Semarang, 12/06 '19
Reviewer 1

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Jurnal Ilmiah			Nilai Akhir Yang Diperoleh
	Internasional [40] ✓	Nasional Terakreditasi [ ]	Nasional Tidak Terakreditasi [ ]	
e. Kelengkapan unsur isi jurnal (10%)	4.00			8% x 40 = 3,20
f. Ruang lingkup dan kedalaman pembahasan (30%)	12.00			27,5% x 40 = 11,0
g. Kecukupan dan kemutahiran data/informasi dan metodologi (30%)	12.00			28% x 40 = 11,20
h. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12.00			28% x 40 = 11,20
Total = (100%)	**40.00**			Total : 36,60
Nilai Pengusul = 60% x =				0,4 x 36,60 / 6 = 2,44

Catatan Penilaian artikel oleh Reviewer :

1. **Kesesuaian dan kelengkapan unsur isi jurnal:**
   Unsur isi jurnal telah sesuai dan lengkap & disajikan dgn baik
2. **Ruang lingkup dan kedalaman pembahasan:**
   Ruang lingkup pembahasan dan kedalaman anya telah dgn baik
3. **Kecukupan dan kemutakhiran data/informasi dan metodologi:**
   Kecukupan dan kemutakhiran data/informasi dan penggunaan metodologi telah dgn baik
4. **Kelengkapan unsur dan kualitas terbitan:**
   Kualitas terbitan baik dan telah dgn unsur kelengkapan

Semarang, 12 - 6 - 2019
Reviewer 2

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Marine Drugs Open Access
Volume 17, Issue 6, 11 June 2019, Article number 349

Sulfur-Containing Carotenoids from A Marine Coral Symbiont Erythrobacter flavus Strain KJ5 (Article) (Open Access)

Setiyono, E.[a], Heriyanto[a], Pringgenies, D.[b], Shioi, Y.[a], Kanesaki, Y.[c], Awai, K.[d], Brotosudarmo, T.H.P.[a]

[a]Ma Chung Research Center for Photosynthetic Pigments (MRCPP), Department of Chemistry, Universitas Ma Chung, Villa Puncak Tidar N01, Malang, 465151, Indonesia
[b]Department of Coastal Resource Management, Universitas Diponegoro, Jl. Prof. Soedarto Tembalang, Semarang, 50275, Indonesia
[c]Research Institute of Green Science and Technology, Shizuoka University, 836 Ohya, Suruga-ku, Shizuoka, 422-8529, Japan

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Abstract

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Erythrobacter flavus strain KJ5 (formerly called Erythrobacter sp. strain KJ5) is a yellowish marine bacterium that was isolated from a hard coral Acropora nasuta in the Karimunjawa Islands, Indonesia. The complete genome sequence of the bacterium has been reported recently. In this study, we examined the carotenoid composition of this bacterium using high-performance liquid chromatography coupled with ESI-MS/MS. We found that the bacterium produced sulfur-containing carotenoids, i.e., caloxanthin sulfate and nostoxanthin sulfate, as the most abundant carotenoids. A new carotenoid zeaxanthin sulfate was detected based on its ESI-MS/MS spectrum. The unique presence of sulfated carotenoids found among the currently known species of the Erythrobacter genus were discussed. © 2019 by the authors.

Author keywords

Caloxanthin sulfate | Carotenoids | Erythrobacter flavus strain KJ5 | Nostoxanthin sulfate | Zeaxanthin sulfate

Funding details

Funding sponsor	Funding number	Acronym
	041/SP2H/LT/MULTI/L2/2019,061/SP2H/LT/K7/KM/2018,041/SP2H/LT/MULTI/L7/2019	

Funding text

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Original language: English

DOI: 10.3390/md17060349
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Publisher: MDPI AG

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