

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

Judul Jurnal Ilmiah (Artikel) : Sulfur-Containing Carotenoids from A Marine Coral Symbiont Erythrobaacter flavus Strain KJ5

Jumlah Penulis : 7 orang

Status Pengusul : penulis anggota

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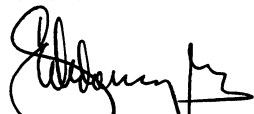
- a. Nama Jurnal : Marine Drugs
- b. Nomor ISSN : ISSN 1660-3397 (Online)
- c. Vol, No., Bln Thn : Volume 17, No. 6, June 2019
- d. Penerbit : MDPI
- e. DOI artikel (jika ada) : doi:10.3390/md17060349
- f. Alamat web jurnal : <https://www.mdpi.com/1660-3397/17/6/349>
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Reviewer 1



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Semarang

Reviewer 2

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Semarang, 12/06 '19
 Reviewer 1



Prof. Dr. Ir. Agus Sabdono, M.Sc
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h. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12.00			$28\% \times 40 = 11,20$
Total = (100%)	40.00			TOTAL : 36,60
Nilai Pengusul = 60% x =				$0,4 \times 36,60 = 14,64$

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Semarang,
Reviewer 2

12 - 6 - 2019

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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

^aMa Chung Research Center for Photosynthetic Pigments (MRCPP), Department of Chemistry, Universitas Ma Chung, Villa Puncak Tidar N01, Malang, 465151, Indonesia

^bDepartment of Coastal Resource Management, Universitas Diponegoro, Jl. Prof. Soedarto Tembalang, Semarang, 50275, Indonesia

^cResearch 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

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