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

Judul Jurnal Ilmiah (Artikel) : Chemical composition and Phospholipids Content of Indonesian Jack Bean (*Canavalia ensiformis* L.)

Jumlah Penulis : 4 orang

Status Pengusul : penulis ke-3

Identitas Jurnal Ilmiah :

- a. Nama Jurnal : Oriental Journal of Chemistry
- b. Nomor ISSN : Print ISSN : 0970 - 020X, ONLINE ISSN : 2231-5039
- c. Vol, No., Bln Thn : Volume 31, No. 4, Desember 2015
- d. Penerbit : Oriental Journal of Chemistry
- e. DOI artikel (jika ada) : 10.13005/ojc/310423
- f. Alamat web jurnal : <http://www.orientjchem.org/vol31no4/chemical-composition-and-phospholipids-content-of-indonesian-jack-bean-canavalia-ensiformis-l/>

Alamat Artikel : <http://www.orientjchem.org/vol31no4/chemical-composition-and-phospholipids-content-of-indonesian-jack-bean-canavalia-ensiformis-l/>

g. Terindex : Scopus/Scimagojr/SJR=0,189 dan Q3

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Nilai Pengusul = (40% x 36,5) 3 = 4,87				

Catatan Penilaian artikel oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:** Jurnal terdiri dari pendahuluan, metodologi, hasil dan pembahasan, referensi. Tidak terdapat simpulan dalam jurnal (sesuai template) namun telah tergambarkan pada abstrak dan pembahasan analisa pospolipid. Setiap bab antar paragraf juga sudah saling terkait. (4)
- Ruang lingkup dan kedalaman pembahasan:** Penulis membahas tentang kandungan dan komposisi kimia pospolipid dalam *jack bean* dari Indonesia (*Canavalia ensiformis*). Cakupan yang dibahas dalam artikel cukup spesifik, dengan karakterisasi FTIR dan GCMS. Dengan dua karakterisasi tersebut mampu mengkonfirmasi kandungan fosfolipid dan gugus fungsi yang terdapat di dalamnya. Kedalaman pembahasan perlu diberikan gambaran hasil dari FTIR dan GCMSnya. Artikel ini hanya berisi 4 halaman (11)
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Metode yang digunakan dalam artikel cukup sederhana. Namun, penyajian data/ informasi hasil uji tidak ditampilkan, baik berupa grafik atau gambar, sehingga penelitian tidak begitu meyakinkan pembaca, pembahasan pun menjadi tidak ada data pendukung yang lebih lengkap. Hanya 37,5% referensi berasal dari referensi sebelum lima tahun, namun 20% nya self sitasi. (11)
- Kelengkapan unsur dan kualitas terbitan:** Open Chemistry merupakan jurnal akses terbuka dengan tinjauan sejawat yang menerbitkan penelitian, ulasan, dan komunikasi asli di bidang kimia secara berkelanjutan. Selain itu, open chemistry dapat menjadi sumber utama penelitian mutakhir dalam kimia fundamental dan penulisnya berasal dari seluruh dunia. Open chemistry telah terindeks scopus dengan nilai SJR 2015 = 0,189. Kelengkapan unsur dan kualitas terbitan sebagai jurnal ilmiah internasional telah terpenuhi. Jurnal ini mulai 2018 dikeluarkan dari scopus (10,5

Semarang, 14-3-2021
Reviewer 2

A handwritten signature in black ink, consisting of a stylized 'M' followed by a cursive 'C' and 'D'.

Prof. Dr. Muhammad Cholid Djunaidi, S.Si., M.Si
NIP 19700702 199603 1 004
Unit Kerja : Kimia FSM Undip

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d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	12,00			10,50
Total = (100%)	40,00			36,00
Nilai Pengusul = (40% x 36) / 3 = 4,8				

Catatan Penilaian artikel oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi jurnal:** Kelengkapan unsur isi jurnal belum terpenuhi karena tidak terdapat kesimpulan, hanya terdapat pendahuluan, metodologi, hasil dan pembahasan, dan referensi. Kesimpulan hanya dijelaskan pada abstrak. Walaupun begitu, masing-masing bab terdapat keterkaitan satu sama lain.
- Ruang lingkup dan kedalaman pembahasan:** Artikel ini berisi tentang komposisi kimia dan kandungan fosfolipid jack bean (*Canavalia ensiformis* L.) dari Indonesia. Pembahasan pada artikel berdasarkan karakterisasi FTIR untuk menganalisis gugus fungsi dan mengkonfirmasi keberadaan gugus fungsi spesifik untuk fosfolipid, dan karakterisasi GCMS untuk menunjukkan residu asam lemak dari fosfolipid. Namun, artikel tersebut belum mencantumkan gambar hasil FTIR dan GCMS, hanya memberikan informasi berupa hasil karakterisasi. Pembahasan artikel kurang rinci karena hanya memberi gambaran garis besar hasil penelitian saja.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Metodologi yang diuraikan cukup ringkas dan sederhana sehingga mudah untuk dipahami. Namun, penelitian belum menampilkan data/informasi hasil pengujian sebagai data pendukung, sehingga menyulitkan pembaca untuk memahami hasil penelitian.
- Kelengkapan unsur dan kualitas terbitan:** Artikel ini sudah memenuhi kualitas terbitan karena diterbitkan oleh Oriental Journal of Chemistry yang merupakan jurnal internasional dengan akses terbuka, ditinjau oleh rekan sejawat, jurnal penelitian dua bulanan kimia murni dan terapan. Oriental Journal of Chemistry menyediakan platform publikasi artikel penelitian berkualitas, ulasan dan komunikasi singkat. Oriental Journal of Chemistry diabstraksikan dan diindeks di hampir semua lembaga Nasional dan Internasional terkenal. Oriental Journal of Chemistry terindeks scopus dengan nilai SJR 2015 = 0,189.

Semarang, 8 April 2023
Reviewer 1

A handwritten signature in blue ink, appearing to read 'M. Suzery', with a horizontal line underneath.

Prof. Dr. Meiny Suzery, MS
NIP. 196005101989032001
Unit Kerja : Kimia FSM Undip

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b. Ruang lingkup dan kedalaman pembahasan (30%)	11,00	11,00	11,00
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	10,50	11,00	10,75
d. Kelengkapan unsur dan kualitas terbitan/jurnal (30%)	10,50	10,50	10,50
Total = (100%)	36,00	36,50	36,25
Nilai Pengusul = (60% x 36,25) = 21,75			

Semarang, 8 April 2023

Reviewer 2



Prof. Dr. Muhammad Cholid Djunaedi, S.Si., M.Si
 NIP 19700702 199603 1 004
 Unit Kerja : Kimia FSM Undip

Reviewer 1



Prof. Dr. Meiny Suzery, MS
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Chemical composition and phospholipids content of Indonesian Jack Bean (*Canavalia ensiformis* L.)

[Hudiyanti D.](#) [✉](#), [Arya A.P.](#), [Siahaan P.](#), [Suyati L.](#)[Save all to author list](#)^a Departement of Chemistry, Faculty of Science and Mathematics, Diponegoro University, Semarang, Indonesia4 36th percentile
Citations in Scopus0.18
FWCI [?](#)27
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The chemical composition and phospholipids content of Indonesian Jack Bean (*Canavalia ensiformis* L.) were determined. This was conducted with a view to supply data to direct industrial utilization of these seeds. The proximate study revealed the following information: total protein 34.6%, total fat 2.4%, fibre 1.2%, ash 2.8%, moisture 12.5% and phospholipids 0.1%. FTIR analysis confirmed the specific peaks for phospholipids and GCMS analysis showed that the fatty acid residues of the phospholipids were palmitic and oleic acids. This study has established useful information for further utilization of this seeds.

Author keywords**Cited by 4 documents**

Liposomes from jack beans phospholipid extract for delivering vitamin C

Hudiyanti, D. , Sari, R.I. , Arya, A.P.
(2020) *AIP Conference Proceedings*

Effect of KOROPASS, an extruded jack bean (*Canavalia ensiformis*)-derived supplement, on productivity and economic performance of beef cattle

Prasetyono, B.W.H.E. , Subrata, A. , Widiyanto, W.
(2020) *Veterinary World*

Effects of heat processing techniques on nutritional value and in vitro rumen fermentation characteristics of Jack bean (*Canavalia ensiformis* L.)

Prasetyono, B.W.H.E. , Tampoebolon, B.I.M. , Subrata, A.
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Encapsulation of Vitamin C in Sesame Liposomes: Computational and Experimental Studies

Hudiyanti, D. , Hamidi, N.I. , Anugrah, D.S.B.
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Coconut (*Cocos nucifera* L.) lipids: Extraction and characterization

Hudiyanti, D. , Al Khafiz, M.F. , Anam, K.
(2018) *Oriental Journal of Chemistry*

Liposomes from jack beans phospholipid extract for delivering vitamin C

Hudiyanti, D. , Sari, R.I. , Arya, A.P.

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 doi: 10.2337/diacare.20.4.545
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Arun Vijay Bagade¹ , Pratik Arvind Nagwade² , Arvind Vinayak Nagwade¹ , Shankar Ramchandra Thopate³ and Sangita Nanasahab Pund^{1*}

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Suthan P and Selva Maleeswaran p

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The Use of Natural Bee Products as Bioindicators of Environmental Pollution – The Detection of Heavy Metals

Biljana Bogdanova Popov¹, Vesna Karapetkovska - Hristova² , Jane Bogdanov³ , Amr Ahmed Ahmed Elsayed⁴ , Trajce Stafilov⁵ , M. Ayaz Ahmad⁵, Mohamed I. Sakran^{6,7} , Nahla Zidan^{8,9} and Syed Khalid Mustafa^{10*}

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Patil J. S, Chanshetti U. B*, Pawar.C. B

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**Prof. (Dr.) S.A. Iqbal**editor@orientjchem.org

Dr. Iqbal at present is serving as Ex-Director in Crescent College of Technology, affiliated to Rajiv Gandhi Technical University, Bhopal India. He is serving Oriental Journal of Chemistry as Chief Editor since last thirty years. Dr. Iqbal is conducting research on environmental, co-ordination and drug chemistry and has a credit of producing 26 Ph.D. (s). Dr. Iqbal has published about 120 research papers in international journals and is the author and co-author of 25 books on various topics of chemistry. He has presented his research work in many International Conferences and is the reviewer of Elsevier publications and is the visiting scientist of Japan and Saudi Arabia.

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A one-pot synthesis of functionalized azadienes from 2-hydroxypyridine, activated acetylenes and alkyl isocyanides

Elnaz Ghasemi and Issa Yavari*

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DFT investigation on the tautomerization reaction and NBO analysis of the Acamprosate drug

B. Esmaili¹, S. A. Beyramabadi^{*1,2}, R. Sanavi-Khoshnood¹, A. Morsali^{1,2}

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A Facile Protocol for the Construction of Tricyclic Framework Tetrahydrobenzo-4-nitrobenzenesulfonate, 4-methylbenzenesulfonate and [1,8] naphthyridine Substituents from Methyl δ -Lactam

Shireen Mohammed and Maher Khalid*

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Effect of methyl paraben, propyl paraben and formalin preserved milk on chemical composition during storage

Suvarthan Ranvir*, Saurabh Gosewade, Harish Kumar and Raman Seth

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An efficient and high-yielding one-pot synthesis of 1H-pyrazolo[1,2-b]phthalazine-5,10-diones catalyzed by sodium hydrogen carbonate under solvent-free conditions

Asieh Vafaei, Abolghasem Davoodnia¹, Mehdi Pordel, and Mohammad Reza Bozorgmehr

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Effect of Chloride ion concentration on Rapid Kinetics of Chlorination of Regioisomers of Nitrophenol by Molecular Chlorine in Aqueous Medium using Rotating Platinum Electrode.

T. M. Sukul, S. L. Bonde^{*}, R. P. Bhadane and V. T. Dangat

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Conditioning of spent ion-exchange resins followed by solidification in the alkali-slag long-lived matrix with an increased level of filling with resins

Svetlana Nikolaevna Skomorokhova, Artem Nikolaevich Nikolaev, Elena Mikhaylovna Trifanova, Ivan Vladimirovich Sitnikov and Elena Aleksandrovna Grushicheva

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Ca(II), Zn(II) and Au(III) sulfamethoxazole sulfa-drug complexes: Synthesis, spectroscopic and anticancer evaluation studies

Fatima A. I. Al-Khodir^{1,2}

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Surprises in the Study of Ruthenium-catalyzed Stereo- and Chemoselective Aldolizations

Elahe Keshavarz,^{1,*} Khalil Tabatabaeian², Manouchehr Mamaghani² and Nosrat O. Mahmoodi²

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Functionalization of Multi-Walled Carbon Nanotubes by 1-Amino-2-Naphthol-4-Sulfonic Acid and Study of Their Antimicrobial Activity Against The Gram-negative and Gram-positive Bacteria.

Sadaf Sami¹ and Elaheh Rahimpour^{*2}

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Drug - Excipient interaction studies of loperamide loaded in polysorbate 80 liposomes.

I. Sarath Chandran¹ and Pichandy Muthu prasanna^{*2}

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Pre-Column derivatization Chiral HPLC Method for the separation and quantification of (R,R)-2,8-diazobicyclo [4.3.0]nonane content in (S,S)-2,8-diazobicyclo[4.3.0]nonane, A Key Intermediate of Moxifloxacin Hydrochloride

Bulusu Lakshmi sushma^{*1,2}, G. Madhusudhan¹, A. Jayashree², and Koti Reddy Yeruva³

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GC-MS Analysis of essential oil of Turmeric rhizome and its activity against Sporothrix Schenckii fungus

Rachna Prakash^{1*}, Shashi Agarwal¹, Alka Srivastava¹ and Vandana Nigam²

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A Flexible Conceptual Framework for Supporting Collaborative Work

Aiman Turani

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Eluent Influences on Synthesis of Fe(III)-imprinted Poly Eugenol using Polyethylene Glycol Diglycidylether (PEGDE) as Cross-linking Agent and its application as Fe(III) sorbent

Muhammad Cholid Djunaidi^{1,2,*}, Dwi Siswanta² and Jumina²

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Use of Variamine Blue dye in Spectrophotometric determination of Water Soluble Cr(VI) in Portland Cement

Devesh K. Sharma^{*} and Rekha Sharma

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Rapid Kinetics and Relative Reactivity of Some Five Membered Aromatic Heterocycles using Hydrodynamic Voltammetry

S. B. Walke, S. L. Bonde^{*}, R. P. Bhadane, V. T. Dangat and B. Jadhav

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Citrus unshiu flower inhibits LPS-induced iNOS and COX-2 via MAPKs in RAW 264.7 macrophage cells

Volume 31, Number 4

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ABSTRACT:

In the present study, we investigated the effects of Citrus unshiu flower on regulatory mechanisms of cytokines and nitric oxide (NO) involved in immunological activity of RAW 264.7 macrophages. Our results indicated that ethyl acetate fraction of Citrus unshiu flower (CUF-EA) downregulated LPS-induced nitric oxide (NO) synthase (iNOS) and cyclooxygenase-2 (COX-2) expression, thereby reducing the production of NO and prostaglandin E₂ (PGE₂) in LPS-activated RAW 264.7 macrophages. Furthermore, CUF-EA suppressed LPS-induced production of pro-inflammatory cytokines such as interleukin IL-6, and tumor necrosis factor (TNF)- α . To elucidate its anti-inflammatory mechanisms, CUF-EA was investigated as an inhibitor of phosphorylation of mitogen-activated protein (MAP) kinase in LPS-stimulated RAW 264.7 macrophages. As expected, the phosphorylation of MAP kinases (p38, ERK1/2 and JNK) in LPS-stimulated RAW 264.7 macrophages was suppressed by CUF-EA in a dose-dependent manner. These results suggest that the anti-inflammatory properties of CUF-EA might results from inhibition of NO, PGE₂, iNOS, COX-2, IL-6 and TNF- α expressions through the down-regulation of phosphorylation of MAPKs in RAW 264.7 macrophages.

KEYWORDS:

C. unshiu; lipopolysaccharide; mitogen-activated protein kinases; nitric oxide; prostaglandin E2

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Introduction

Citrus unshiu Markovich (Rutaceae) is a seedless and easy-to-peel fruit cultivated primarily on Jeju Island, Korea after introduction from Japan in the 1910s. C. unshiu constitutes more than 30% of the total fruits produced in Korea. The peels, called Jin-pi, have also been used in Traditional Korean Medicine to improve gastroenteric disorders, asthma, and loss of appetite¹⁻². There are reports that C. unshiu peels and their constituents have diverse pharmacological activities, including anti-anxiety³, recovery of liver function⁴⁻⁵, anti-inflammatory⁶, anti-allergic⁷⁻⁸, anticancer⁹, and anti-diabetic¹⁰. However, anti-inflammatory effects of the extracts of C. unshiu flowers have not yet been described. Therefore, the anti-inflammatory activities of the extracts of C. unshiu flower were investigated in this study.



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Electrochemical Behavior of Silver Electrode in Sulphuric Acidic Solution During Anodic Polarization

Volume 31, Number 4

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ABSTRACT:

The results of studying the electrochemical behavior of silver in sulphuric acid solution during anodic polarization are given in this work. The investigation on studying electrochemical properties of silver has been carried out by the use of cyclic voltammetric method. It was investigated that complicated electrochemical reactions occur in aqueous solution of sulphuric acid using silver electrodes, in anodic area takes place the silver oxidation with formation of oxides and sulphate of silver.

KEYWORDS:

anodic polarization; electrochemical behavior; potentiodynamic polarization curves; silver

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Introduction

One of the promising methods currently in use, is the polarization by the AC of industrial frequency, which is the interest of researchers both in terms of oxide formation and destruction of passivated film. The peculiarity of the processes, occurring under the influence of industrial AC, is that when change the direction of current is possible to remove the oxide film, and create the conditions for an unhindered further dissolution of metal¹.

The electrochemical processes involving precious metals, especially silver in connection with the increasing demand for its in various branches of technology and industry are interesting. Systematic studies, allowing establish regularities of electrooxidation of silver, followed by synthesis of its compounds, may lead both to an intensification of its production, and to solve problems of resource saving.

A considerable amount of research has involved silver electrodes in different media. The interest in the electroformation and electroreduction of insoluble silver salts in different electrolytes containing halides, hydroxides, carbonates, chromates, perchlorate, etc.²⁻⁸ and the particular aspects of their electrochemistry is based mainly on the relevance that these films have in galvanic cells, seawater batteries, second class



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