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HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING

Judul Karya Ilmiah : Liposomes from jack beans phospholipid extract for delivering vitamin C
 Jumlah Penulis : 4 Orang
 Status Pengusul : Penulis ke-4
 Identitas Prosiding : a. Judul Prosiding : AIP Conference Proceedings: The 14th Joint Conference On Chemistry (JCC) 2019
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 c. Thn Terbit, Tempat Pelaks. : 2020, Surakarta - Indonesia
 d. Penerbit/Organiser : AIP Publishing LLC
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 Alamat Artikel : <https://aip.scitation.org/doi/10.1063/5.0005213>
 f. Terindeks di (jika ada) : Scopus/Scimago/SJR=0,19 (2019)

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Hasil Penilaian *Peer Review* :

Komponen Yang Dinilai	Nilai Maksimal Prosiding		Nilai Akhir Yang Diperoleh
	Internasional ☐	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	3,00		3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		8,5
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,5
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		9,00
Total = (100%)	30,00		29
Nilai Pengusul = (40% x 29)/3 = 3,87			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper:** Setiap bab dalam artikel mampu menjelaskan satu sama lain, atau saling terkait. Artikel terdiri dari, pendahuluan, metodologi, hasil dan pembahasan, kesimpulan, dan referensi. Referensi terdiri dari jurnal-jurnal yang sudah bereputasi. Hal tersebut telah memenuhi unsur penulisan karya ilmiah yang baik. (3)
- Ruang lingkup dan kedalaman pembahasan:** Penulis membahas mengenai ekstrak liposom dari *jack bean* yang digunakan untuk mengenkapsulasi vitamin C dengan tambahan kolesterol sebagai pembanding. Beberapa hal diperoleh dari artikel ini adalah efisiensi enkapsulasi, konsentrasi kolesterol optimum, informasi zeta potensial, ukuran partikel, dan indeks polidispersitas. Hal tersebut sangat baik dijelaskan dalam artikel dan dengan pembahasan yang terstruktur, urut, dan runtut. Penulis mampu menjelaskan analisis mikrometik dan hubungannya dengan release vitamin C. Kedalaman pembahasan sudah lengkap dan mampu dipahami secara umum. Penulis sudah mencantumkan referensi untuk analisa Vit C dengan “campuran” liposom dan kolesterol. Namun panjang gelombang maksimal yang digunakan tidak disebutkan (8,5).
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** metodologi yang digunakan cukup efisien dalam mengekstrak liposom dari *jack bean*, data yang disajikan dalam artikel sangat mendukung untuk pembahasan selanjutnya. Referensi yang digunakan dalam pembahasan juga berasal dari jurnal-jurnal bereputasi secara umum. Instrumen yang digunakan GC-M, nano particle analyzer dan UV-Vis. Hampir 65% referensi adalah artikel yang rbit sebelum 5 tahun dari artikel ini terbt, namun 47 % adalah jurnal karya penulis (self sitasi) (8,5)
- Kelengkapan unsur dan kualitas terbitan:** AIP Conference Proceedings merupakan serial yang diterbitkan oleh American Institute of Physics (AIP) sejak 1970. Ini menerbitkan prosiding dari berbagai konferensi bidang fisika. AIP Publishing telah menjadi sumber terpercaya jurnal penelitian, prosiding konferensi, dan informasi penting bagi ilmuwan fisika di mana pun, dengan indeks scopus dan nilai SJR = 0.19 (2019) (9).

Semarang, 17-3-2021

Reviewer 1



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

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	Internasional ☐	Nasional ☐	
a. Kelengkapan unsur isi prosiding (10%)	3,00		3,00
b. Ruang lingkup dan kedalaman pembahasan (30%)	9,00		8,50
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	9,00		8,50
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00		8,50
Total = (100%)	30,00		28,50
Nilai Pengusul = (40% x 28,5)/3 = 3,8			

Catatan Penilaian Paper oleh Reviewer :

- Kesesuaian dan kelengkapan unsur isi paper:** Kelengkapan unsur isi jurnal telah terpenuhi karena pada artikel tersebut terdapat pendahuluan, metodologi, hasil dan pembahasan, kesimpulan, dan referensi.
- Ruang lingkup dan kedalaman pembahasan:** Artikel ini berisi tentang ekstrak fosfolipid dari jack bean untuk mengenkapsulasi vitamin C. Kolesterol dengan variasi konsentrasi dari 0 sampai 40% digunakan untuk membuat liposom. Pembahasan meliputi profil rantai asil fosfolipid jack bean, mikromeritik dan analisis potensial zeta, dan efisiensi enkapsulasi vitamin C. Penulis mampu menyusun pembahasan secara jelas dan mudah dipahami.
- Kecukupan dan kemutakhiran data/informasi dan metodologi:** Metodologi yang diuraikan mudah untuk dipahami. Penelitian menggunakan instrumen GCMS untuk menentukan rantai asil pada fosfolipid jack bean setelah esterifikasi. Selain itu penelitian dilakukan dengan instrumen Nano Particle Analyzer dan spektrofotometer UV-Vis. Pada artikel ini, data/informasi dan metodologi sudah cukup dan mutakhir karena telah menyertakan referensi dari jurnal ilmiah bereputasi dan disertai grafik yang memperjelas hasil penelitian.
- Kelengkapan unsur dan kualitas terbitan:** Artikel ini merupakan AIP Conference Proceedings yang melaporkan temuan yang dipresentasikan pada pertemuan ilmiah dari konferensi internasional besar hingga lokakarya skala kecil. Bidang studi yang dipresentasikan mencakup ilmu fisika, termasuk fisika, matematika, kimia, ilmu material, dan teknik. AIP Publishing terindeks scopus dengan nilai SJR = 0.19 (2019) .

Semarang, 9 April 2023
 Reviewer 2



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

**LEMBAR
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Hasil Penilaian Peer Review :

Komponen Yang Dinilai	Nilai Reviewer		Nilai Rata-rata
	Reviewer I	Reviewer II	
a. Kelengkapan unsur isi prosiding (10%)	3,00	3,00	3
b. Ruang lingkup dan kedalaman pembahasan (30%)	8,50	8,50	8,50
c. Kecukupan dan kemutakhiran data/informasi dan metodologi (30%)	8,50	8,50	8,50
d. Kelengkapan unsur dan kualitas terbitan/prosiding(30%)	9,00	8,50	8,75
Total = (100%)	29,00	28,50	28,75
Nilai Pengusul = (40% x 28,75)/3 = 3,83			

Semarang, 9 April 2023

Reviewer 2



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

Reviewer 1



Prof. Dr. Muhammad Cholid Djunaidi, S.Si., M.Si
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Liposomes from jack beans phospholipid extract for delivering vitamin C

Hudiyanti D. ✉, Sari R.I., Arya A.P., **Siahaan P.**

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^a Chemistry Department, Diponegoro University, Semarang, 50275, Indonesia

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Abstract

Liposomes from jack beans phospholipid extract were used to encapsulate vitamin C. The liposomes were made with cholesterol concentration between 0 and 40%. The encapsulation efficiency of liposomes was evaluated just after they were formed. Then the liposomes were stored under several temperatures namely 37, 25, and 5 °C. The vitamin C released from liposomes was monitored in 8 days. The highest value of vitamin C encapsulation efficiency (EE) in jack bean liposome was 86.61% once the cholesterol concentration was 40%. The cholesterol reduced the release of liposomes. The vitamin C

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Hudiyanti, D. , Hamidi, N.I. , Anugrah, D.S.B.
(2019) *Open Chemistry*

Cholesterol implications on coconut liposomes encapsulation of beta-carotene and vitamin C

Hudiyanti, D. , Aminah, S. , Hikmahwati, Y.
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optimum released from liposome was found at 20% cholesterol for the whole storing temperatures. The empty liposome zeta potential, particle size and polydispersity index were 71.36 mV, 59.27 nm and 0.39 while liposome encapsulated vitamin C were 71.65 mV, 78.40 nm, and 0.39, respectively. © 2020 Author(s).

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School of Material Science and Engineering, Gyeongsang National University, Korea

Prof. Dr. How Siew Eng

Combinatorial Chemistry & Natural Products Chemistry, Fakulti Sains dan Sumber Alam, Universiti Malaysia Sabah

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Chemistry Department, Universitas Sebelas Maret, Indonesia

The invited speakers of parallel lectures are

Dr. Mohd Sani Sarjadi

Faculty of Science and Natural Resources, Universiti Malaysia Sabah

Adiwibawa P., S.Si, M.Sc., Ph.D

Chemistry Department, Universitas Diponegoro

Dr. Santi Nur Handayani M.Si

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Important Date

- ~~10th June 2019~~ : Abstract Submission ends
- 15th July 2019 : Abstract Submission ends (extended)
- ~~17th June 2019~~ : 1st Abstract acceptance
- 22th July 2019 : 2nd Abstract acceptance (extended submission)
- 7th July 2019 : Early bird registration ends
- ~~7th August 2019~~ : Late payment ends
- 25th August 2019 : Late payment ends (extended)
- ~~14th August 2019~~ : Full paper submission ends
- 31st August 2019 : Full paper submission ends (extended)
- 10th – 11th September 2019 : JCC-14 takes place

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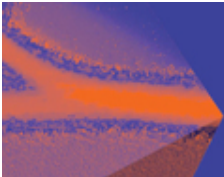
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