C37 Turnitin L. R. Telly Savalas

by Lalu Rudyat Telly Savalas C37

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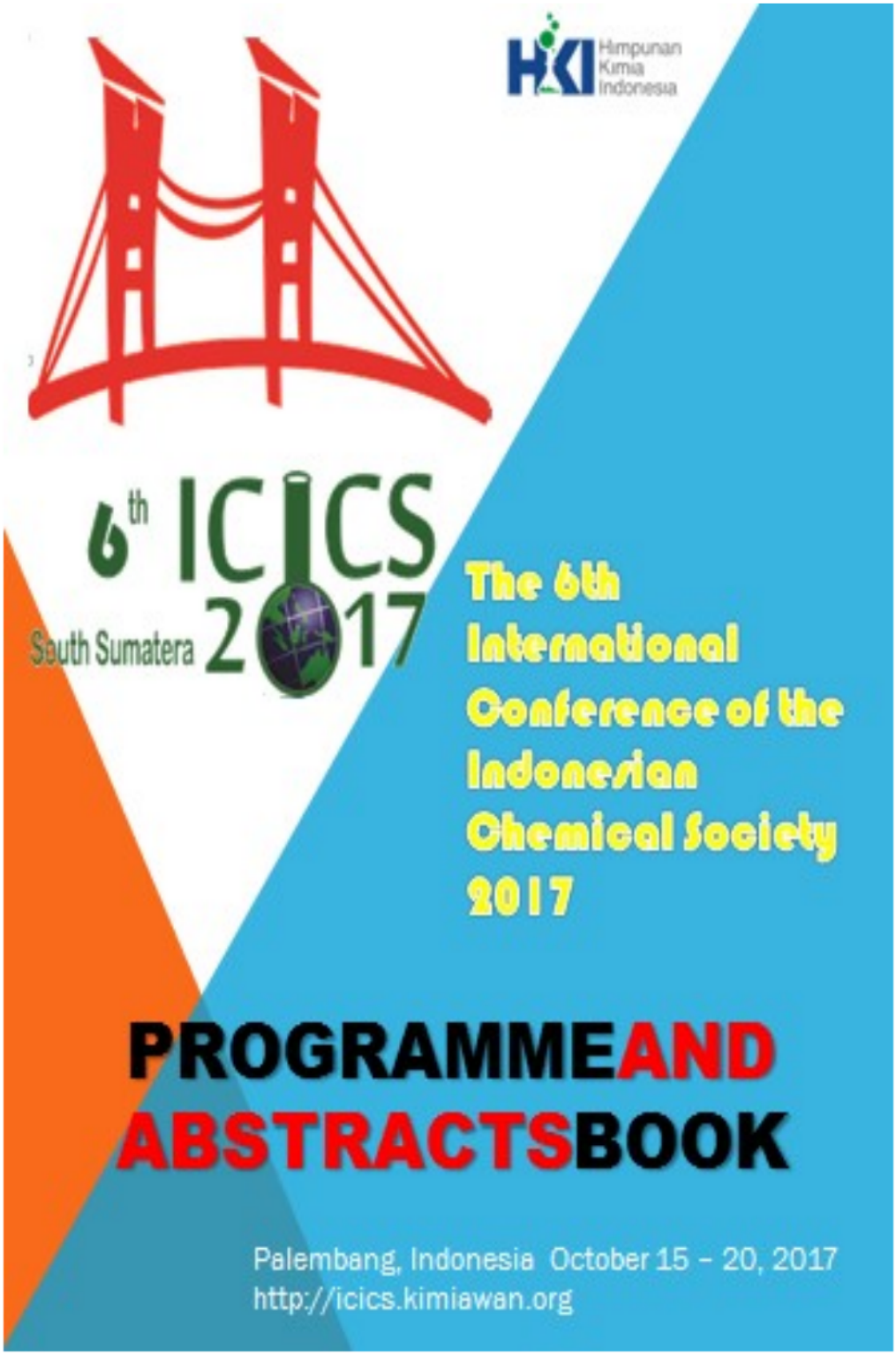
Himpunan Kimia Indonesia
6th ICICS 2017
South Sumatera
The 6th International Conference of the Indonesian Chemical Society 2017
PROGRAMME AND ABSTRACTS BOOK
Palembang, Indonesia October 15 – 20, 2017
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The 6th International Conference of the Indonesian Chemical Society 2017

Hotel Horison Ultima, Palembang, Indonesia

October 15 - 20, 2017

The 6th Himpunan Kimia Indonesia (HKI) annual conference on Tue-Wed, 17-18 October 2017, is organized by South Sumatera Branch of HKI in collaboration with Sriwijaya University (Unsri) and South Sumatera Province. South Sumatera was selected as the location for 2017 HKI annual conference in HKI National Meeting 2014, 3 years ago, in Ambon, Maluku. This is a bilingual conference (Indonesian and English), which means that the paper can be written in English or Indonesian language (Bahasa Indonesia), and the presentation can be delivered in English or Bahasa Indonesia.

Before, parallel to, or after the conference, there will be several satellite activities (workshop, etc.) including a meeting of the Forum of Head of Chemistry Departments in Indonesia (Temu Forum Ketua Jurusan/Prodi Kimia dan Pendidikan Kimia se-Indonesia 2017, Temu FKJKI-2017), contact: fkjki-2017@kimiawan.org) that will be started in the evening (19.00) of 17 October 2017. Any chemistry-related communities/institutions could register other satellite activities (one-day workshop, symposium, training, etc.) to icics-2017-satellite@kimiawan.org, to be offered to conference attendees. Satellite activities could be held in any date between 3 October to 31 October 2017.

One day before the conference, on Monday, 16 October 2017, HKI Congress will be held to find the next President-Elect of HKI. The elected person will be the next President-Elect of the Indonesian Chemical Society from 1 January 2018 to 31 December 2018, while Dr. Tatas Brotosudarmo will be the President of HKI.

Speach by Chairman

Assalamualaikum waromatullahi wabarakatu,

Dear Distinguished Guests and Participant,

We cordially welcome you to the 6th International Conference of Indonesian Chemical Society in Palembang South Sumatera. This conference is organized by the Indonesian Chemical Society (HKI) and Chemistry Department Faculty of Mathematics and Natural Sciences Sriwijaya University (Unsri) supported by LPPM Unsri.

I would like to inform some formal information related to this conference. The conference's theme is "Stimulating of Advanced Perspective and Current Concepts on Chemistry field". The goals of conference are to provide a vehicle the state of the art in research results and trends in chemistry field, to offer interaction, discussion and possible collaboration among chemist and the public about chemistry, to increase awareness of policy makers and public on chemistry's rule in national development.
This conference consists of 4 keynotes speakers from USA, Japan, Solomon Island, 8 invited speakers, and 229 participants who deliver as oral or poster presenters.
Accompanying this conference, there are some activities: Indonesia high level meeting on chemical security by Sandia USA (15-16 October), Congress of PNHKI (16-17 October), FKJKI meeting (18 October), and Palembang city tour (19 October).

We are sincerely grateful to welcome honorable keynote speakers, distinguished invited speakers and excellent of participants for sharing their knowledge in this conference.

The keynote speakers in this conference are :
1. Dr. Andrew W. Nielson (Sandia National Laboratories, USA)
2. Prof. Hisao Yoshida (Kyoto University, Japan)
3. Prof. Dr. Basil Shelton Marasinghe (Solomon Island National University, PNG)
4. Drs. Muhammad Abdulkadir Martoprawiro, Ph.D (ITB, Indonesia)

The Invited Speakers are :

1. Prof. Dr. Subandi (UM, Indonesia)
2. Prof. Dr. Suyanta (UNY, Indonesia)
3. Prof. Aldes Lesbani, PhD (Unsri, Indonesia)
4. Dr. Jarnuzi Gunlazuardi (UI, Indonesia)
5. Dr.rer.nat. Didin Mujahidin (ITB, Indonesia)
6. Dr. Muktiningsih Nurjayadi (UNJ, Indonesia)
7. Dr. Sal Prima Yudha S. (Unib, Indonesia)
8. Prof. Dr. Muhammad Bachri Amran (ITB, Indonesia)
9. Dr.rer.nat. Ria Armunanto (UGM, Indonesia)

I would like also to express thanks and appreciation to the organizing committee for their cooperative work and efforts to make our conference a success.

Finally, I would like to thank to all participants and their respective institutions that have made this conference possible and I wish you all have a pleasant meeting.

Waalaikumsalam warohmatullahi wabarakatuh

Hermansyah, M.Si., Ph.D.

Chairman of Organizing Committee
The 6th International Conference of Indonesian Chemical Society

Forward by the Dean

In the Name of Allah, the Most Beneficent, the Most Merciful.

It gives me a great pleasure to welcome you to the 6th International Conferences of Indonesian Chemical Society (ICIC) 2017 organized by the Department of Chemistry Faculty of Mathematics and Natural Sciences University of Sriwijaya in collaboration with the Indonesian Chemical Society. The theme for this conference is "*Stimulating of Advanced Perspective and Current Concepts on Chemistry Field*".

I am very happy and grateful that many distinguished Academicians, Scientist, Researchers and practitioners of Chemistry have come from both home and abroad to share their knowledge and experience. On behalf of the Faculty of Mathematics and Natural Sciences University of Sriwijaya, I would like to take this opportunity to express our deep appreciation for all of national and international keynote speakers as well as invited speakers for their willingness to come to Palembang and honoring us a keynote speeches for this conference. I also wish to give special thanks to the Sandia America that has hold a special workshop on the "*Indonesia high level meeting on chemical security*" for the last two days. Last but not least, I would like to extend our appreciation to the Indonesian Chemical Society, government, university colleagues and companies for their continued and invaluable support to make this meeting a success.

I sincerely wish you would have most productive days of interesting and stimulating discussions. I believe that this conference is a great opportunity not only for sharing knowledge and experience in chemical research, but also for starting a long and fruitful cooperation and friendship among Academicians, Researchers and practitioners of Chemistry.

Finally, I would like to thank and congratulate the organizing committee for their dedication and tremendous efforts in organizing the conference. I wish you all an enjoyable meeting and fruitful discussion.

14

Prof. Dr. Iskhaq Iskandar, M.Sc.

Dean, Faculty of Mathematics and Natural Sciences
University of Sriwijaya

Speach by Rector of Sriwijaya University

Bismillahirrohmaanirrohim

Assalamualaikum warohmatullahi wabarakatuh,

In the name of Alllah SWT and all praise belongs to Him who is blessing us today to come and attend this important conference.

In accordance with the university status as a research university, it is important for the university to disseminate new research findings and discoveries in the community, the nation and the world. I am pleased that Chemistry Department Faculty of Mathematics and Natural Sciences Sriwijaya University (Unsri)supported by LPPM Unsri collaborate with the Indonesian Chemical Society (HKI) have organized the sixth international conference of Indonesian chemical society (ICICS) in Palembang.

With the theme of this conference, "Stimulating of Advanced Perspective and Current Concepts on Chemistry field". I believed that this conference served as platform for the discussion and dissemination of research findings information on research trends, and latest development in the area of chemistry. It is hoped that this meeting of academicians, researchers,and professionals from universities, government institutions, research institute, and private companies can lead to much bigger things in the future.

Therefore, I sincerely expect this conference generate more cooperation in research and education. Such cooperation can lead to progress in all areas of chemistry for the welfare of mankind.

By this conference also I hope that it facilitates Indonesian chemists to publish their research results in reputable journal/proceeding.

I am sincerely grateful to welcome honorable keynote speakers, distinguished invited speakers and excellent of participants for sharing their knowledge in this conference.

This conference will be able to meet our goals and objectives and provide a rewarding experience to all participants, from local and international. My appreciation also goes to the organizing committee for making this conference a success.

I take this opportunity to thank and to appreciate the Sandia and CRDF United State of America which have hold the workshop on 'Indonesia high level meeting on chemical security' on October 15-16, 2017.

Congratulation also address to Indonesian chemical society and head of chemistry department from Universities in Indonesia for their annual national meeting and congress during this conference.

Finally, in anticipation of successful conference, in the name of Allah, the beneficient, the merciful.

"Bismillahirrohmaanirrohim"

I hereby officially open the 6th International Conference of Indonesian Chemical Society 2017"

Good luck, I wish you all an enjoyable meeting and fruitful discussion.

Wassalamualaikum Warohmatullohi wabarakatuh.

Prof. Dr. Ir. AnisSaggaf, MSCE.
Rector of Sriwijaya University

Poster

Code	Name	Title
P1	Wiyogo Prio Wicaksono	Electrochemical Behavior of Different Palladium Shell Thickness of Gold-Palladium Core-Shell Nanoparticles (Au@Pd CSNPs) on Boron-Doped Diamond Electrode
P2	Eliza	The Cytotoxicity and IsolationTriterpenoid Acid from Bark of *Sandoricum koetjape*
P3	Widinda Normalia Arlianty	Student's Profile About Analysis Questions Cognitive Level Based on Bloom Taxonomy Version Kreathwohl
P4	Argo Khoirul Anas	The Effect of Purification Process on Electrical Conductivity of Multiwall-Carbon-Nanotubes/Natural-Rubber-Latex Nanocomposite
P5	Putri Amanda	New Supramolecular Metallo-Terpyridine Pectin Derivatives With Fluorescent Properties
P6	Ade Heri Mulyati	Pendugaan Umur Simpan Tepung Biji Durian Lokal (Durio Zibhetinuss l) dengan Metode Akselerasi Pendekatan Kadar Air Kritis
P7	Habibi Hidayat	Isolation and Identification of Probiotics Bacteria as a Producer of Protease Enzyme From Fermentation of Papaya Seeds
P8	Beta Wulan Febriana	Analysis of Problem Based Learning in Hidrokarbon Compound Material in Vocational School
P9	Siti Warnasih	Utilization of Cempedak Seeds Waste As Alternative Raw Material for Wheat Flaur To Produce Oyster Mushroom Meatballs
P10	Artina diniaty	VAK (Visual, Auditory, Kinesthetic) Learning Model to Improve Life Skills
P11	Lina Fauziah	Cyclization Reaction of 4-Nitro-3'-4'-Dimethoxychalcone and Phenylhydrazine
P12	Tatang Shabur Julianto	The Effect of Mole Comparison of Acetone As Co-Solvent to Methanol in Transesterification Reaction of Waste Cooking Oil
P13	Baharuddin Hamzah	Effects of Copper(II) and Cadmium(II) on Mercury(II) Extraction Percentage Using Liquid Membrane Emulsion of W/O type with Double Surfactant and Benzoyl Acetone As Cation Carrier
P14	Muliadi Ramli	Biosynthesized of Magnesium Oxide (Mgo) Nanoparticles and Its Application as An Inorganic Antimicrobial
P15	I Nengah Wirajana	The Activity of Thermostable a-L-Arabinofuranosidase from *Saccharomyces Cerevisiae* BJ1824 Recombinant on the Coconut Leaves (*Cocos Nucifera*)
P16	Dhina Fitriastuti	Antimalarial Activity Of Extract and Fraction of Temu Mangga (*Curcuma Mangga*) Rhizomes
P17	Siti Wafiroh	Synthesis of Membrane Photocatalytic from Pineapple (*Ananas comosus*) Leaf Fiber Cellulose Diacetate and TiO_2 to Degrade Congo Red

P18	Usreg Sri Handajani	Development of Carbon Paste Electrode Modified MIP With Methacrylic Acid as Monomer to Analyze Creatine by Potentiometry
P19	Noor Fitri	Sequential Extraction of Yttrium in Lateritic Soil Weathered From Granitic Rock in Mamasa, West Sulawesi, Indonesia
P20	Emma Zaidar Nasution	The Effect of Natural Feed, Factory and Oils nn The Gurami Fish Weight (*Osphronemus gouramy* Lac.)
P21	Fahma Riyanti	Effect of NaOH Concentration and Temperature On The Synthesis $MnFe_2O_4$ by Co-Precipitation Method
P22	Suharti	Cloning and Characterization of a Novel Gene Encoded Thioesterase From Domas Hot Spring
P23	Rumondang Nasution	Toxicity Assay of Methanol Extract Leaves Parasite Coffe With Method Brine Shrimp Lethality
P24	Nyimas Febrika Sya'baniah	Functionality Analysis of Carbon Nanosheet, Oxidized Carbon Nanosheet and Reduced Carbon Nanosheet Oxide by Using Fourier Transform Infra Red (FT-IR) and Boehm Titration Method
P25	Saputri Ariyanti	Cytotoxicity Evaluation of Aquatic Plant: Ludwigia leptocarpa
P26	Hermansyah	Bioethanol Production from Cassava (Manihot esculenta) Peel Using Yeast Isolated from Durian (Durio zhibetinus)
P27	Anna Muawanah	Physicochemical, Organoleptic and Prebiotic Properties of Yoghurt Added With Fermented Breadfruit Flour by Laktobacillus Plantarum
P28	Neza R Palapa	Adsorption of Cobalt (II) on Layered Double Hydroxides (Mg/Al and Ca/Al) in Aqueous Medium : Kinetic and Thermodynamic Aspect
P29	Irfan Gustian	Preparation and Characterization of Polymer Electrolyte Membrane Based on Sulfonated Polystyrene
P30	Rizki Triana Sari	Study of Phytic Acid Effectivity as Chelating Agent of Unwanted Metal from Tin Slag 2 Leaching to Increase Purification of Tantalum and Niobium Oxide
P31	Setyo Nurwaini	Formulation of Clove Oil Toothpaste (*Syzygium aromaticum* (L.) Merr. & Perry.)
P32	Ika Natalia Mauliza	How to Improve Quality of the Colouring Silk using Monascus Dyed Derived from Cassava Peel Flour Fermentation
P33	Widia Purwaningrum	Immobilized Chitosan and Its Application on Fe(III) Adsorption in Peat Water
P34	Cut Fatimah Zuhra	Characterization of Starch Breadfruit (Artocarpus Altilis) and Chitosan Edible Film
P35	Dina Asnawati	The Effect Concentration of Lignin Extract Inhibitor From Coconut Fiber Waste to Iron Corrosion Rate
P36	Jannatin 'Ardhuha	Characterization and Partial Purification of Lipase from Cocos nucifera
P37	Mashuni Mashuni Pallawagau	Characterization of Total Phenolic Content and Components of Chemical Compounds by GC-MS from Pyrolisis of Coconut Shell
P38	Nur samsiar	In Silico Study of Aglycone Curculigoside a and Its Derivatives With Various Cancer Receptors

amount of 1: 1; 1: 2; and 1: 3 with a total mixture of 4 g in 100 ml of solution using 1.2 ml glycerol as plasticizer, then dried in an oven at 45 0C for 48 hours. Retrieved Edible Films that have the following characteristics: tensile strength value obtained for the edible film 1: 1 = 7.7 MPa and Percentage of elongation is 10.06%; 1:2 = 3.2 MPa and Percentage of elongation values is 14.22 % and 1: 3 = 2.3 MPa and Percentage of elongation values is 22.32%. Thick of Edible Film was obtained from 0.12 to 0.15 mm. Edible film surface morphology is less homogeneous. FT-IR analysis showed that in the edible film occurs physical interaction only.

Keywords: Edible Film, Bread Fruit Starch, Chitosan, Glycerol, Characterization

1232- The Effect Concentration of Lignin Extract Inhibitor from Coconut Fiber Waste to Iron Corrosion Rate

Dina Asnawati*

Department of Chemistry Faculty of Mathematic and Natural Sciences University of Mataram

**email: dinaasnawati@gmail.com*

The problem that often arises in the field of industry is corrosion. One way to inhibit corrosion rate is by using inhibitors. Coconut fiber waste contains lignin which can be used as corrosion inhibitor. This study aims to determine the effect of inhibitor concentration of lignin extract from coconut fiber waste to iron corrosion rate and thermodynamic studies. The corrosive medium used was HCl 1 M and iron corrosion inhibition was determined by weight loss method. Iron is immersed in solution of coconut fiber waste lignin extract inhibitor with concentration 0, 5, 10, 15, 20 g/L at temperature variation: 303, 323 and 333 K. Thermodynamic study was conducted to know the process of inhibition of lignin extract of coconut fiber waste. The results showed that the corrosion rate decreased with the addition of lignin concentration, but increased with temperature rise. Optimum inhibition efficiency occurred at lignin concentration 20 g/L and temperature 303 K that is equal to 72.51%. Thermodynamic studies produce Ea, DH, DS and DGoads values indicating that lignin extract from coconut fiber waste can inhibit iron corrosion in acid medium through physical adsorption, endothermic reactions and spontaneous at temperature 303 and 323 K but not spontaneously at temperature 333 K.

Keywords: inhibitor, corrosion, lignin, coconut fiber

1236- Characterization and Partial Purification of Lipase from Cocos nucifera

Jannatin 'Ardhuha

Department of Physic, University of Mataram

The increasing need of lipase has motivated new exploration of lipase sources. Meat of germinating coconut has been reported to be a good source for lipase. In this study, we characterized coconut (Cocos nucifera) lipase and did partial purification by ammonium sulfate precipitation. It was revealed that 45-60% ammonium sulfate fraction gave the highest specific lipase activity. It was also shown by Native-PAGE that coconut lipase consists of at least two complex proteins of around 110 kDa and 134 kDa. It was further more identified that the two complex protein consists of at least 5 different sub units whose composition is yet to be determined.

Keywords: lipase; Cocos nucifera; ammonium sulfate precipitati

Characterization and Partial Purification of Lipase from Coconut Endosperm (*Cocos nucifera* L.)

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INTRODUCTION

The demand for lipase enzymes in Indonesia continues to increase significantly each year in line with advances in various industrial sectors, such as the pharmaceutical industry, biodiesel industry and the detergent industry. The supply of lipase enzymes in Indonesia is almost entirely dependent on imports from abroad. Local crop exploration as a source of lipase has so far been limited to several plant species, such as ketapang, purging nut or Barbados nut, cocoa, soybean, and sunflower. On the other hand, coconut is a plant with the highest level of abundance in Indonesia, with total production of 2,871,280 tons in the form of copra production in 2017 which is the second largest in the world after Philippines. Because of its large amount of coconut production in Indonesia, coconut is a very promising plant to be used as a new source of lipase enzyme. Research on the lipase enzyme from *kelapa dalam* varieties has been widely conducted. Ejedegba et al. (2007) studied the characteristics of the chemical and physical properties of lipase enzymes from *kelapa dalam* varieties that have been refined with acetone, showing that the lipase enzyme from *kelapa dalam* has a good affinity to the coconut oil substrate with optimum pH of 8.5 and the optimum temperature between 35-40 ^{o}C on triolein substrate. Research carried out by Su'i and Supihana (2013) which also use *kelapa dalam* or local cocunut variety showed that the lipase enzyme that has been fractionated with ammonium sulphate has exhibited the highest specific activity on 30-45% fraction level with 0.55 unit/mg protein and a molecular weight of 72 kDa. In this research we tried to characterize and did partial purification of the lipase enzyme from *genjah* coconut varieties, especially *gading* coconut.

Coconut of *Dalam* variety (left), Creamy and skim fraction of coconut milk (middle) and end point of titration in the determination of lipase activity (right)

MATERIAL S AND METHOD

Cooling centrifuge (Tommy MX-160), waterbath shaker, micro centrifuge (IECMicro-MB centrifuge), pH-meter (WalkLAB), spectrophotometer UV-Vis (Thermoscientific), vortex, heating-cooling block (Combitherm 3-150), Vertical electrophoresis apparatur (Scie-plus), germinated coconut, Virgin Coconut Oil (VCO), 96% alcohol, aceton, ammonium sulphate, phosphate buffer, Tris-HCl buffer, NaOH, Na_2HPO_4, NaH_2PO_4, phenolphtalein indicator, Pierce® BCA Protein Assay *Kit* (Thermoscientific).

Coconut germination and Lipase isolation

The coconut was germinated following the method of Oo and Stumpf (1983) that was slightly modified. Lipase was isolated from the endosperm of coconut according to the method of Sana et al. (2004) that was modified.

Partial purification

Partial purification of lipase was done by the method as described by Sana et al. (2004).

Lipase assay

Lipase activity was based on hydrolysis of triacyl glycerol and the released fatty acids were determined.

Molecular weight determination

Molecular weight of lipase was determined by sodium dodecyl sulfate polyacrylamide gel electrophoresis (SDS-PAGE) and native-PAGE with 10% polyacrylamide.

RESULTS AND DISCUSSION

Purification of Lipase

Crude lipase was purified using ammonium sulfate precipitation with its various concentration consisting of 0-15%; 15-30%; 30-45%; 45-60%; 60-75%; 75-90%. This was followed by dyalysis. The following table shows the summary of purification table of lipase.

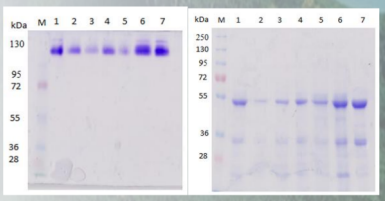
Summary of purification results

Fraction	Activity (U/mL)	Specific Activity (U/mg)	Total Activity (U)	*Yield* (%)	Purification fold
Crude	0.55	0.18	55.5	100	1
0-15%	0.67	0.85	2.13	3.84	4.57
15 -30%	1.17	1.52	3.50	6.30	8.23
30-45%	1.17	3.09	4.08	7.35	16.72
45-60%	2.11	0.58	8.44	15.20	3.14
60-75%	2.22	0.27	8.89	16.00	1.45
75-90%	1.67	0.23	6.67	12.00	1.23

The activity of purified lipase was found in all fractions with the highest activity was found in 60-75%, i.e 2.22 U/mL, The highest specific activity of the purified lipase enzyme was found in the fraction 3 (30-45%) by 3.09 U/mg protein. This figure corresponds to 16 times purification fold or with the yield percentage of 7.35% while the lowest specific activity at fraction 6 (75-90%) is equal to 0.23 U/mg protein. This finding is consistent previous report by Su'i and Suprihana (2013) who found the highest specific activity in 30-45% fraction of ammonium sulphate, i.e. by 0.55 U/mg protein.

Determination of molecular weight by Native-PAGE and SDS-PAGE

Electrophesis on Native PAGE shows that each fractions contain a single band of c.s. 130 kDa. To investigate whether the band is a single protein, denaturated PAGE was performed. Our result suggests that coconut lipase consists of at least three distinct subunits with molecular weight of 52 kDa, 32 kDa, and 19 kDa. Lipases from different sources have variety molecular weight, such as lipase from cocoa beans (36 kDa), lipase from hazelnuts (20 kDa) and lipase from *Pseudomonas* sp. has a molecular weight of 49.924 kDa. It is tempting to seek in near future whether individual lipase subunits has lipas activity. Accordingly, it is interesting to dissect wheter individua subunit has substrate preference.



Native PAGE (left) and SDS PAGE (right) of lipase fractions. Numbers indicate increasing ammonium sulphate saturation (nr 1 crude, nr 2 fraction 0-15%, etc)

CONCLUSION

In conclusion the highest specific activity of lipase from coconut endosperm was found in 30-45% fractions i.e. 3.09 U/mg protein with corresponds to i.e. 7.35% yield and 6 purification fold compared to crude lipase. Lipase of coconut endosperm is a complex protein which consist of at least three subunits with estimated molecular weight of 52 kDa, 32 kDa and 19 kDa whose property are yet to be determined.

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6th ICICS South Sumatera 2017

This is to Certify That

Lalu Rudyat Telly Savalas

Has Successfully Completed the

PRESENTER

at

The 6th International Conference of the Indonesian Chemical Society.

Palembang, October 17-18, 2017

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