



2nd MIPS

Second Makassar International Symposium on Pharmaceutical Science 2013

*"From Discovery of Chemical and Natural Drug
To Application In Clinical Pharmacy"*

Makassar, March 22nd - 23rd 2013

CERTIFICATE

present to

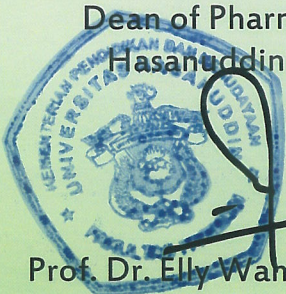
Febriyenti

In recognition of your participation as

SPEAKER

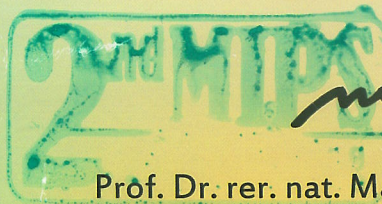
PP IAI No. 497/SK-SKP/PP. IAI/III/2013 : Speaker 7 SKP,
Moderator 3 SKP, Organizing Committee 3 SKP, Judge 5 SKP,
Presenter 5 SKP, Participant 20 SKP

Dean of Pharmacy Faculty
Hasanuddin University



Prof. Dr. Elly Wahyudin, DEA, Apt

Chairperson of
Organizing Committee



Prof. Dr. rer. nat. Marianti A. Manggau, Apt



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2nd MIPS

Second Makassar International Symposium
on Pharmaceutical Science 2013

**From Discovery of Chemical and Natural Drug
To Application In Clinical Pharmacy**

ABSTRACT BOOK

March, 22nd - 23rd 2013
Makassar, South Sulawesi
Indonesia

2nd MIPS



ISCC DAAD



Presented by :
Faculty of Pharmacy Hasanuddin University



Welcome remarks
Dean of Faculty of Pharmacy,
Hasanuddin University

Bismillahirrahmanirrahim
Assalamu alaikum Wr.Wb,

It gives me great pleasure to welcome all of you to the 2nd MIPS Makassar International Symposium on Pharmaceutical Science in Hasanuddin University Makassar, Indonesia. This two-day symposium held on March 2nd - 23rd 2013 is created to Commemorate the fifty years of Pharmacy education in Hasanuddin University.

I would like to express my sincere appreciation to the German Academic Exchange Service (Deutscher Akademischer Austauschdienst- DAAD), Indonesian Pharmacy Higher Education Association (APTFI) and Indonesian Pharmacist Association (IAI) including other sponsorships for their contribution on this symposium.

During the past 50 years, the world has seen a gradual shift in the emphasis of drug discovery concern. One major milestone is the convening of the International symposium on discovery and development of chemical and natural drugs. This symposium will formulate new visions on the close links between lead compounds, intermediate materials, natural or synthetic products and drug development process.

As what we offered in the 1st MIPS, we hope this symposium could become a vibrant forum where an international network of researchers and practitioners get along to share advances; to spark new collaborations, and to envision the future enriched by valuable source of ideas for designing new drugs, developing new methods of drug discovery and hence generating significant publications. As the Dean of the Faculty of Pharmacy, I believe that this 2nd MIPS event will bring new breakthrough and thus will be an event to be remember by all of us. I wish you all enjoying your time in Makassar.

Thank you

Wassalamualaikum warahmatullaahi wabarakatuh

Elly Wahyudin, Prof.
The Dean of Faculty of Pharmacy, Hasanuddin University
Makassar-Indonesia

**Welcome Speech by Rector
of Hasanuddin University**



Honorable Minister of National Educations,
Director of DAAD Branch in Jakarta,
Vice Rectors, Deans, Professors, and Senior Colleagues of
Hasanuddin University,
Symposium Presenters and Participants,
Distinguished Guests, Ladies and Gentlemen

Assalamu' alaikum Wr. Wb. and Good Morning.

First of all, on behalf of Hasanuddin University allow me to extend a very warm welcome to you to come to this Second Makassar International Symposium on Pharmaceutical Science convened by Faculty of Pharmacy, the youngest faculty at Hasanuddin University.

This symposium is jointly organized by Hasanuddin University (Unhas), Freie University Berlin (FU Berlin), Toyama University, Indonesian Pharmacist Association (IAI) and Indonesian Association of Higher Education of Pharmacy (APTFI), and it marks the first moment that these five institutes have cooperated in this kind of activity. I hope that the academic collaboration between Unhas, Freie University, Toyama University, IAI and APTFI will flourish, and the relationship between these institutions is strengthened in the future.

There are various topics to be presented in the symposium, and each of them is closely related and very important for human beings, particularly for those who live in developing countries like Indonesia. The issue of natural products, for example, has been long regarded as mainstay of drug discovery programs in Indonesia With its rich biodiversity, and old traditional medicine system, Indonesia offers a unique opportunity for drug discovery from natural sources. At the same time, research inputs to provide scientific basis are also needed for this purpose in order to enhance drug discovery programs in Indonesia This symposium is hoped to provide a platform for international and national researches networking.

Ladies and Gentlemen

Hasanuddin University is one of the excellent pharmaceutical science-based universities in Indonesia. We work in pharmacy in broad sense, including pharmacology and toxicology, pharmacognosy and phytochemistry, pharmaceutical sciences and

pharmaceutical chemistry with good facilities, high qualified human resources, and international partnership. We also offer educational and research activities with wide-range of support services and resources, both for undergraduate and postgraduate programs, focusing on the research in drug discovery.

As you might have probably known that Hasanuddin University (UNHAS) is now entering its 57 year, and it prides itself as the oldest and biggest Indonesian State University situated in the eastern region of Indonesia. During the past 56 years, UNHAS has grown from 4 faculties in its first establishment to 14 faculties plus one Postgraduate Studies Program, becoming a full-fledged university offering huge numbers of study programs, both Undergraduate, Masters, and Ph.D. (Doctoral) Degree Programs supported by large numbers of teaching staff members, consisting of more than 250 Professors, 500 with Ph.D. and 870 Master degree qualifications, as well as 30.000 students, and 1500 administrative staff members. Until now, the total number of alumni is 93,156 undergraduates and 10,939 postgraduates, where one of them is Mr. Jusuf Kalla, the former Vice President of the Republic of Indonesia. By this fact, UNHAS has been building its self-management capacity to assure its role as cultural and excellent institution in developing harmonized reality without neglecting the interconnectivity with the strategic environment.

Ladies and Gentlemen

This symposium, I am sure, will promote good strategies to overcome many problems related to the pharmacy in broad sense. We expect the symposium can enhance the capacity building of institution, networking among researchers, and sharing experiences in order to easily contact and establish academic and research collaborations for the sake of sustainable development and the future lives of our generations.

Last but not least, I would like to thank the all Committee of this symposium, especially, Professor Elly Wahyuddin, the Dean of the Faculty of Pharmacy, and Professor Marianti Manggau, the Chairperson of the symposium, who have made this international symposium possible. I would like also to extend my appreciation to the German Academic Exchange Service (DAAD), Freie University Berlin, German, and all of those contributing to this important international gathering.

By saying Bismillaahirrahmanirrahim, I declare this International Symposium on Pharmaceutical Science held in Makassar on 22 March 2013 is officially opened. Thank you very much for your all kind attention and cooperation.

Wassalamu 'alaikum wr. wb.

Prof. Dr. dr. Idrus A. Paturusi

Rector

2nd MIPS 2013 SCHEDULE

Thursday, March 21 st 2013	
14.00-17.00	Welcome desk and Poster Registration "
Friday, March 22 nd 2013	
08.00-08.30	Onsite registration in the Baruga A.P. Pettarani entrance Hall
08.30-09.00	Opening ceremony
09.00-09.40	Organizing Committee Report : - Chairperson Prof. Dr. rer-nat. Marianti A. Manggau, Apt. - Director of DAAD Branch Jakarta Dr. Irene Jansen - Rector of Hasanuddin University Prof. Dr. A. Idrus Paturusi - Governor of South Sulawesi Dr. H. Syahrul Yasin Limpo, SH., MH
09.40-10.25	Opening symposium & Keynote Speaker Minister of National Health of Indonesia Dr. Nafsiah Mboi, Sp.A, MPH
10.25-10.40	MoU Signing with pharmaceutical industries
10.40-11.15	Invited speaker presentation I Current Researchs on Indonesian Pharmaceutical Industry
11.15-12.00	Invited speaker presentation II, Moderator : Prof. Dr. Subagus Wahyuono, M.Sc., Apt Prof. Dr. Burkhard Kleuser, Potsdam Universitaet, Potsdam, Germany
12.00-14.00	Lunch and Poster Presentation at the Aula of Post-graduate building
14.00-16.00	Afternoon Session (oral presentation for researcher)

15.30-16.00				Discussion		
15.15-15.30	Affrisusnawati Rauf	The Activity Test of Caspase-1 and p53 on Macrophage Cells from Active Anticancer Compound Curcuseone B and Jatrophione C	Enih Rosamah	Antibacterial Activity from Extracts of Api-Api (<i>Avicennia lanata</i> Ridley) Leaves		
15.00-15.15	Annisa Novarina	Cytotoxic Effect of Ethanolic Extract of Mangosteen Pericarp (<i>Garcinia mangostana</i>) on Several Cell Lines	Ihham	The Examination of Autologous Serum Eye Drops as Antibacterial and Anti-inflammatory for Ocular Surface Diseases		
14.45-15.00	Ulfaatul Husnaa	Co-Chemotherapy Potential of Ethyl Acetate Fraction of Secang's Heartwood (<i>Caesalpinia sappan</i> L.) on HeLa Cell Line through Cell Cycle Arrest	Ratsatun Nisa Sugriyanto	<i>Carica papaya</i> Leaf Extract Modulate the Estrogenic Effects on Ovariectomized Rats Study		
14.30-14.45	Indri Kusharyanti	Cytotoxic Activity Of Ethanolic Extract Of <i>Impatiens balsamina</i> Linn And Its Fraction On MCF7 Cell Line	Usmar	Effect of Omeprazole on Decreased Body Temperature Rabbits Given Paracetamol		
14.15-14.30	Ni Putu Linda Laksmiani	Isolation of Brazilein from Secang (<i>Caesalpinia sappan</i> L.) and Its Cytotoxic Effects in MCF-7 Cells	Muslim Stuarti	Wound Healing Properties Of Chitosan-Honey Biomembrane To The Incision On Male White Rats		
14.00-14.15	Habbibe	Resveratrol Induces Apoptosis in Melanoma Cells via Down Regulation of Survivin Expression	Nur Ida	Pigmentation Effect of Black Pepper Seed Extract Cream (<i>Piper nigrum</i>) in Rabbit Skin		
		Cancer Prevention Research	Pharmacology and Dermatology			

Oral Presentation Schedule
Friday, March 22nd 2013

14.00-14.15	Elmi Nurhaidah Zainuddin	Natural Product	Antimicrobial Activity of Green Seaweed <i>Ulva reticulata</i> of South Sulawesi Takalar Waters	Pharmaceutical Biology	Subehan	The Characterization and Antioestrogenic Activity of <i>Sappan Lignum</i> (<i>Caesalpinia sappan</i> L.) Extracts
14.15-14.30	Rahmawati Syukur		Isolation and Identification of Polysaccharide Compounds in Aqueous Extract of Safflower Petals (<i>Carthamus tinctorius</i> L.) from Bone Region		Sartini	Antimycobacterial Activity of Calyces of <i>Hibiscus sabdariffa</i> Infusion on the Growth of <i>Mycobacterium tuberculosis</i>
14.30-14.45	Andi Arjuna		Determination Of Antioxidan Activity Of Black Glutinous Rice Extracts from South Sulawesi Indonesia Using Microplate-Based B-Carotene Bleaching Assay And Their Chemical Profile Studies Using HPTLC		Dhadhang Wahyu Kurniawan	Gel Formulation and Activities Testing <i>Infusa Randu Leaf</i> (<i>Ceiba pentandra</i>) as Hairtonic
14.45-15.00	Islamudin Ahmad		The Effect Of Extraction Method of <i>Eleutherine americana</i> Merr. in Decreasing Of Blood Glucose Levels Activity On Mice (<i>Mus musculus</i>)		Aliyah	Qualitative And Quantitative Analysis Of Total Polyphenol And Flavonoid Contents Of Honey-Essence Of Paliasa By Spectrophotometry Uv-Vis
15.00-15.15	Abdul Rahim		Determination of Total Anthocyanin Content and Free Radical-Scavenging Activities of <i>Oryza sativa</i> var. Glutinosa		Nurhasni Hasan	Formulation And In-Vitro Evaluation Of The Ethanolic Extract Of Propolis in Preparation Of Vaginal Mucoadhesive Gel
15.15-15.30	Nursamsiar		In Silico Study of The Interaction of Curculigoside A with Cyclin Dependent Kinase (CDK-2 and CDK-6) Receptors		Ahmad Zaeni	Antibacterial Activity of Marine Bacteria from Wakatobi Against Bacterial Pathogens
15.30-16.00			Discussion			

2nd MIPS 2013
SCHEDULE

14:00-14:15	Haka Khanom	Clinical Pharmacy
14:15-14:30	Marline Abdassah	A Validated Titrimetric Method for Determination of Hydrogen Peroxide (H ₂ O ₂) in Pharmaceutical Dosage Form
14:30-14:45	Agnes Lidjaja	Study Of Potency And Stability Of Amoxicillin Dry Syrup And Dry Injection After Reconstituted
14:45-15:00	Asnah Marzuki	The Genetic Diversity Analysis of <i>Mycobacterium tuberculosis</i> Isolates Resistant to Rifampicin Using Random Amplified Polymorphic DNA Method
15:00-15:15	Rachmat Mauludin	The Analysis of LDL Cholesterol as a Risk Factor for Complications in Patients with Type-2 Diabetes Mellitus in RSUP dr. Wahidin Sudirohusodo Makassar
15:15-15:30	Gunawan Indrayanto	Preparation of Fannotide Loaded Lipid Nanoparticles for Oral Administration
15:30-16:00	Discussion	Quality Control for Herbal Derived Drugs and Its Method of Validation

Oral Presentation Schedule
Friday, March 22nd 2013

Saturday, March 23 rd 2013	
08.30-08.35	Opening session
08.35-10.50	Invited speaker presentation I, Moderator : Subehan, S.Si., M.Pharm. Sc., Ph.D., Apt.
08.35-09.05	Prof. Dr. Phil Crews , University of California Santa Cruz, USA
09.05-09.35	Prof. Dr. Ibrahim Jantan , University Kebangsaan Malaysia, Malaysia
09.35-10.05	Prof. Dr. Ikuo Saiki , University of Toyama, Japan
10.05-10.35	Dr. rer. nat. Sarah Kuechler , Muenchen University, Germany
10.35-11.00	Discussion
11.00-11.15	Coffee break and Poster Exhibition
11.00-13.15	Invited speaker presentation II, Moderator: Prof. Dr. Yahdiana Harahap M.S., Apt.
11.15-11.45	Prof. Dr. Aishah Adam , UITM Malaysia
11.45-12.15	Yusnita Rifai, S.Si., M.Pharm., Ph.D., Apt. , Hasanuddin University, Indonesia
12.15-12.45	Dr. Bobby F. Assiddiq , Alphasains Dinamika, Indonesia
12.15-12.45	Discussion
12.45-13.00	Lunch and Poster Presentation at the Aula of Post-graduate building
13.00-14.00	Pharmapreneurship Dra. Hj. Nurhayati Subakat, Apt. (PT. Paragon Technology and Innovation-Wardah Cosmetics)
14.00-16.00	Afternoon session (Scientific Oral Presentation for Researcher)
16.00-17.00	Closing ceremony

* The schedule is tentative and is subject to change as the symposium progresses

List of Participant

01	Penetration of Diclofenac Sodium in Span Niosomal System Tutiek Purwanti, Tristiana Erawati, Noverika A. Putri1, Nurtya J. Devi	28
02	The Analysis of LDL Cholesterol as A Risk Factor for Complications in Patients with Diabetes Mellitus type-2 in RSUP dr.Wahidin Sudirohusodo Makassar Asnah Marzuki*, Fitriani M**, Pranita A*	29
03	Resveratrol Induces Apoptosis in Melanoma Cells via Downregulation of Survivin Expression Habibie, Satoru Yokoyama, Sherif Abdelhamed, Suresh Awale, Yoshihiro Hayakawa, and Ikuo Saiki	30
04	A Validated Titrimetric Method for Determination of Hydrogen Peroxide (H ₂ O ₂) in Pharmaceutical Dosage Form Hafsa Khanom	31
05	The Activity Test of Caspase-1 and p53 on Macrophage Cells from Active Anticancer Compound Curcusone B and Jatrophone Afrisusnawati Rauf, Marianti A. Manggau, Elly Wahyudin, and Sahidin	32
06	The Effect of Co-Surfactant on The Characterization and Penetration of Diclofenac Sodium Microemulsion W/O System in Carbopol 940 Gel Base Esti Hendradi*, Tutiek Purwanti, Ganes Mahardhika, Mahadri Dhrik	33
07	Antimycobacterial Activity of Calyces of <i>Hibiscus sabdariffa</i> Infusion on the Growth of <i>Mycobacterium tuberculosis</i> Sartini, Agnes Lidjaja, Sri Rizkiana T.	34
08	The Effect Of Extraction Method Of <i>Eleutherine americana</i> Merr. In Decreasing Of Blood Glucose Levels Activity On Mice (<i>Mus musculus</i>) Islamudin Ahmad, Yurika Sastyarina, Niken Indriyanti	35
09	Physical Characteristic and Viability of <i>Lactobacillus acidophillus</i> Microparticle Using HPMC K100LV and K4M as Matrices Dike Bagus Pamuji, Agil Antono, Sugiyartono, Isnaeni	36

10.	Improved Synthesis of Burseran and Its Hedgehog/GLI Signaling Inhibitory Activity Anshar Saud, Yusnita Rifai, Midori A. Arai, Masami Ishibashi2	37
11.	Compound Of The Heavy Metals And Drying Shrinkage Of The Flour From The Market South Jakarta Wahidin *. Mulhaquddin Sastrayuninrat** .Efrika Nurma Yusa Gentina*	38
12.	Microencapsulation of Theophylline Using Sodium Alginate Extracted from <i>Sargassum siliquosum</i> of South Sulawesi Ocean Latifah Rahman, Mufidah, Sumarheni	39
13.	Formulation and In-Vitro Evaluation Of The Microcapsules Ethanolic Extract Of Propolis In Preparation Of Vaginal Mucoadhesive Gel Nurhasni Hasan, Latifah Rahman, Marianti A.Manggau, Mappatoba Sila	40
14.	In Vitro Effectivity Para Methoxy Cinnamate Acid (PMCA) in Solid Lipid Nanostructure (SLN) System Using Cetyl Alcohol as Lipid Formulated in HPC-H Gel Base Noorma Rosita*, Widji Soeratri, Tristiana Erawati, Ayunanda, Wakhida Fitriyani	41
15.	Cream Formulation of Safflower Petals Extract (<i>Carthamus tinctorius</i> L.) and its Physical Stability Test Ermina Pakki, Rahmawati Syukur, Muzakkir Rewa, Iztas	42
16.	Physical Stability Evaluation of Snakehead Fish Cream with Using Variations of Non Ionic Emulgator Concentration Robert Tungadi*, Ermina Pakki, Nursiah Hasyim	43
17.	Analysis of Formaldehyde Impurity in Disposable Diapers by Visible Spectrophotometry Method Adek Zamrud Adnan, Regina Andayani1, Sylvia Angelina	44
18.	Preparation of Famotidine Loaded Lipid Nanoparticles for Oral Administration Rachmat Mauludin, Novita R. Kusuma, Diky Mudhakir	45
19.	Cinnamomum burmani's Distillate Increased Cytotoxic Effect Of Doxorubicin On T47d Cells By Induction Of Apoptotic Nita Kristiani, Etyk Yunita Anjarsari , Yonika Arum Larasati, Dyaningtyas Dewi Pamungkas Putri , Edy Meiyanto*	46

20	Isolation and Identification of Phenolic Compounds of Safflower Petals Extract (<i>Carthamus tinctorius</i> L.) Collected from Bone Region Gemini Alam, Rahmawati Syukur, Syaharuddin Kasim, Rezki Fajar Wulan	47
21	Isolation and Identification of Polysaccharide Compounds of Aqueous Safflower Petals Extract (<i>Carthamus tinctorius</i> L.) Collected from Bone Region Rahmawati Syukur, Gemini Alam, Arfiana	49
22	Mouth Gel Formulation Made Of Kalimantan Black Betel Leaf Extract As Antimicrobial Of Gums Inflammation (Gingivitis) And Cavities (Caries) Fajar Prasetya, Angga Cipta Narsa	48
23	Antimalarial Activity and Chemical Studies of <i>Zingiber aromaticum</i> (Zingiberaceae) Used as Traditional Medicine in Indonesia Syaharuddin Kasim, Sumarheni	50
24	<i>Pycnarrhena cauliflora</i> Ethanolic Root Extract Induces Cell Cycle Arrest and Apoptosis in <i>HeLa</i> Human Cervical Cancer Cells Masriani*, Mustofa, Jumina, and Sunarti	51
25	Gel Formulation and Activities Testing Infusa Randu Leaf (<i>Ceiba pentandra</i>) as Hairtonic Dhadhang Wahyu Kurniawan, Wildansyah Azami, Iskandar Sobri	52
26	The Genetic Diversity Analysis of <i>Mycobacterium tuberculosis</i> Isolates Resistant to Rifampicin Using Random Amplified Polymorphic DNA Method Agnes Lidjaja, Asaad Maidin, Debbie Soefie Retnoningrum, Fatmawaty Badaruddin	53
27	Antimicrobial Activity of Green Seaweed <i>Ulva reticulata</i> Collected from Takalar Waters of South Sulawesi Elmi Nurhaidah Zainuddin, Marianti A Manggau, Sartini, W N Fadzlina Wan Nawi	54
28	Preparation and Characterization of Cocrystal between Didanosine and Two Aromatic Acids Fikri Alatas, Sundani Nurono Soewandhi, Lucy Sasongko, and Ismunandar, Hidehiro Uekusa	55
29	In Silico Study of The Interaction of Curculigoside A with Cyclin Dependent Kinase (CDK-2 and CDK-6) Receptors	

	Nursamsiar, Slamet Ibrahim and Daryono H. Tjahjono	56
30	Wound Healing Properties of Chitosan-Honey Biomembrane to The Incision On Male White Rats Muslim Suardia, Maria Dona Octaviab, Azyumarnib	57
31	QSAR And Pharmacophore Features Study Of Pyrazolo (3,4-D)Pyrimidines As Mer Tyrosine Kinase Inhibitor Nursalam Hamzah and Daryono H. Tjahjono	58
32	Bioactive Potential of Green Seaweed <i>Ulva reticulata</i> Against Potato Plant Pathogenic Microbes Huyyirnah, Ifayanti Ridwan, Elmi Nurhaidah Zainuddin,	59
33	Qualitative and Quantitative Analysis of Total Polyphenol And Flavonoid Contents of Honey-Essence of Paliasa By Spectrophotometry Uv-Vis Aliyah, Elly Wahyudin	60
34	Pigmentation Effect of Black Pepper Seed Extract Cream (<i>Piper nigrum</i>) in Rabbit Skin Nur Ida, Ermina Pakki, Sukati Kadis, Arviani Arifin	61
35	Isolation and Characterization of n-Hexan Fraction Of Parang Romang (<i>Boehmeria Virgata</i> (Forst)Guill) Leaves Active Compound Against HeLa Cancer Cells M.Rusdi, Gemini Alam, Marianti Manggau	62
36	Cytotoxic Effect of Ethanolic Extract of Mangosteen Pericarp (<i>Garcinia mangostana</i>) on Several Cell Lines Annisa Novarina ¹ , Prisnu Tirtanirmala, Ulfatul Husna, Dyaningtyas Dewi P.P, Edy Meiyanto,*	63
37	Antibacterial Activity from Extracts of Api-Api (<i>Avicennia lanata</i> Ridley) Leaves Enih Rosamah*, Harlinda Kuspradini, and Rita Hairani	64
38	PGV-0 Increases Sensitivity of Doxorubicin Resistance Breast Cancer Cells Dyaningtyas Dewi Pamungkas Putri, Aditya Fitriasari, Edy Meiyanto	65
39	Effect of Omeprazole on Decreased Body Temperature Rabbits Given Paracetamol Usmar, Rina Agustina, Kus Haryono	66

59. Comparative Swallow Nest Cream Formulation in O/W and W/O Base as Face Whitening
Siti Nani Nurbaeti, Liza Pratiwi, Wintari Taurina 86
60. The Characterization and Anti-osteoporotic Activity of Sappan Lignum (*Caesalpinia sappan* L.) Extracts
Subehan, Yusnita Rifai, Mufidah, Ismail 87

Poster

1. *Centella asiatica* Peel Off Masks 88
Febriyenti, Elfi Sahlan Ben and Endah Wahyuni
2. Physical Characteristics and Release Profiles of Diclofenac Sodium Patch on Various Menthol Concentration
Nursiah Hasyim, Hermal Malik, Mirawati. 92
3. Identification of Drug Related Problems (DRPs) in Prescribing of In-patient's Prescription of Dr. Wahidin Sudirohusodo Makassar Hospital that were Hospitalized from January to September 2011
H.TAHIR, 93
4. The Discovery of Mercury-Resistant Bacteria *Klebsiella pneumoniae* Isolated From Sario River Estuary That Can be Used to Detoxify Inorganik Mercury Wastes
Fatimawali 94
5. Hepatogenerative Activity of Paliasa (*Kleinhovia hospital* Linn.) Tea Bag In Mice (*Mus musculus*)
Rosany T, Usmar, Kus Haryono, Sri Wahyuni R* 95
6. Honey Peel Off Masks 96
Febriyenti1, Fifi Harmely and Pipit Novita sari
7. Effect of Infusion Bandotan Leaves (*Ageratum conyzoides* L.) on the Uric Acid Content of Rabbits (*Oryctolagus cuniculus*)
Asnah Marzuki, Rosany T, Milka T 97
8. Daidzein and Genistein Analysis in New Variety of Soy Bean by Using HPLC 98
Wiwiek Indriyati, Ida Musfiroh, Tika Sumarya, Aliya Nur Hasanah
9. Molecular Docking of Asiatic Acid on Inducible Nitric Oxide Synthase (INOS) and ADMET Prediction
Ida Musfiroh, Ahmad Muhtadib, Rahman E Kartasasmita,

- Slamet Ibrahim S 99
10. Effect Of Ethanol Extract Of Kayu Ular (*Strychnos ligustrina* Bl) Against Aspirin-Induced Gastric Mice (*Mus musculus*)
Maulita Indrisari, Nurul Arfiyanti Yusuf 100
11. Physical Stability of the Combination of Antiacne Cream Curcuma Rhizome (*Curcuma xanthorrhiza* Roxb.), Tamarind Leaves (*Tamarindus indica* L.), and Bangle Rhizome (*Zingiber cassumunar* Roxb.) with Various Emulgators. 101
Nur khairi, Fajriansyah, Sjalri Ahmad Ariandy
12. Antioxidant Activity of The Ethanol Extract of Kelengkeng Fruits Seeds (*Euphoria longan*) Using DPPH (2,2-Diphenyl-1-Picrilhydrazil) and Nitrite Method
Fitriyanti Jumaetri Sami, Syamsu Nur 102
13. The Evaluation of Jackfruit (*Artocarpus heterophyllus* Lamk) Seed Lectin as H5N1 Vaccine Adjuvant.
Riyani, A., Suciati, T., Immaculata, M., Gusdinar, T. 103
14. Formulation, Physical stability, and Antierythemic Effect of Cream Containing Curculigo Orchioides Extract
Michrun Nisa, Radhia Rezky, Aisyah Fatmawaty 104
15. Antibacterial and Antifungal Activities of Secondary Metabolites from Stems of Bambu-Bambu (*Polygonum pulchrum*)
Sahidin I, Ardiansyah, Sahta Ginting and Marianti A. Manggau 105
16. Detection of Cytochrome-b Gene Using Polymerase Chain Reaction (PCR) Method in Some Grand of Biscuits
Marlina, Sahilah, A.M.,and Akni, F. 106

Abstract for Poster Presentation

Centella asiatica Peel Off Masks

001

Febriyenti, Elfi Sahlan Ben and Endah Wahyuni
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Abstract

Peel off masks containing ethanolic extract of *Centella asiatica* (L.) Urban have been formulated in three formulas by using three different concentrations of extract i.e.: 1%; 3%; and 5%, polyvinyl alcohol (PVA) and polyvinyl pyrrolidone (PVP) as polymer, propylene glycol as a plasticizer, nipagin and nipasol as preservative. The masks were subject to evaluation procedures including homogeneity, pH, spreading test, skin irritation test, elongation test, drying time test, physical stability test against cooling and the antioxidant activity assay by using DPPH (1,1-diphenyl-2-picrylhydrazil). Results showed that all formulas were physically stable for 6 weeks storage and the best formula was formula which contained ethanolic extract of *Centella asiatica* (L.) Urban by concentration of 5%.

Key Words

- swallow nest,
- cream,
- face whitening

Honey Peel Off Masks

Febriyenti¹, Fifi Harmely² and Pipit Novita sari²

¹Faculty of Pharmacy, Andalas University, Padang-Indonesia 25163,

²Sekolah Tinggi Farmasi Indonesia-Yayasan Perintis, Padang-Indonesia

email: febriyenti74@yahoo.com

Abstract

Honey peel off masks has been formulated by using polyvinyl alcohol (PVA) in combination with carbomer 940, hydroxypropyl methylcellulose (HPMC) or polyvinyl pyrrolidone (PVP). Propylene glycol was used as a plasticizer and nipagin as a preservative. The masks were subject to evaluation procedures including homogeneity, pH, spreading test, skin irritation test, elongation test, drying time test, physical stability test against cooling and the panelist preference test. Results showed that all formulas were physically stable for 6 weeks storage and the best formula was formula which used combination of PVA and carbomer 940 as polymers.

Key Words :

- honey,
- peel off mask, PVA,
- carbomer 940,
- propylene glycol

006

Effect of Infusion Bandotan Leaves (*Ageratum conyzoides* L.) on the Uric Acid Content of Rabbits (*Oryctolagus cuniculus*)

Asnah Marzuki*, Rosany T., Milka T*
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Abstract

A study about the effect of infusion of bandotan leaves (*Ageratum conyzoides* L.) on the content of uric acid in rabbits (*Oryctolagus cuniculus*) has been conducted. This study aimed to determine the effect of infusion of bandotan leaves on rabbit. There were 15 rabbits that used in this study and divided into 5 groups. Group I as a negative control was administered distilled water 10 ml, group II was administered infusion of bandotan leaves 5% w/v, group III was administered infusion of bandotan leaves 10% w/v, group IV was administered infusions of bandotan leaves 20% w/v, and group V as a positive control was administered allopurinol suspension 7 mg/kg BB. Each group was induced by potassium bromate (KBrO₃) 111 mg/kg BB and left for 72 hours, and then blood sampling was conducted after 1 and 3 hours of treatment. The results of statistical analysis using a Completely Randomized Design (CRD) and followed by test of Duncan's Multiple Range Test (DMRT) indicated that bandotan leaves infusion of 5 % w/v, 10 % w/v, and 20 % w/v very significantly affected the lowering levels of uric acid. Extract at a concentration of 20% w/v gave the greatest effect and was not significantly different with positive control Allopurinol.

Key Words :

- bandotan leaves
- *Ageratum conyzoides* L.
- Uric acid,
- rabbits
- *Oryctolagus cuniculus*

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