LAMPIRAN

Lampiran 1. Surat Determinasi

UNIVERSITAS GADJAH MADA
FAKULTAS BIOLOGI
LABORATORIUM SISTEMATIKA HEWAN
Jl. Teknika Selatan, Sekip Utara, Yogyakarta 55281. Telp. (0274) 580839

SURAT KETERANGAN

No : BI/SH/53/IX/2018

Yang bertanda tangan di bawah ini, menerangkan bahwa Mahasiswa Program Studi Farmasi, Fakultas Kedokteran dan Ilmu Kesehatan, Universitas Muhammadiyah Yogyakarta:

No.	Nama Mahasiswa	NIM	Judul
1.	Fitria Rahmani Dewi	20150350011	Pembuatan Sediaan Masker Gel *Peel Off* Lendir Bekicot (*Achatina fulica*)
2.	Dwi Asih Ramadhani	20160350023	
3.	Annisa Zulfa Kharimah	20150350035	
4.	Fildzah Tsani Azhari	20150350074	
5.	Isna Aura Dewayanti	20160350077	

telah selesai melakukan identifikasi anggota gastropoda darat (bekicot) di Laboratorium Sistematika Hewan, Fakultas Biologi, Universitas Gadjah Mada, di bawah bimbingan Rury Eprilurahman, S.Si., M.Sc.

Hasil Identifikasi sebagai berikut :
1. *Achatina fulica* (Férussac, 1821) (deskripsi terlampir)

Demikian surat keterangan ini dibuat, untuk dipergunakan seperlunya.

Mengetahui,
Dekan Fakultas Biologi UGM

Dr. Budi Setiadi Daryono, M.Agr.Sc.
NIP 197003261995121001

Yogyakarta, 05 September 2018
Kepala Laboratorium

Drs. Trijoko, M.Si
NIP 195704271986011001

UNIVERSITAS GADJAH MADA
FAKULTAS BIOLOGI
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Jl. Teknika Selatan, Sekip Utara, Yogyakarta 55281. Telp. (0274) 580839

Referensi

Fang, F. 2011. The invasive species, *Achatina fulica* Ferussac, Competent Colonized in Hainan Island, Biological Evidence, Vol.1, No.2 2-3 (doi: 10.5376/be.2011.01.0002)

van Benthem Jutting, WSS. 1952. On the anatomy of *Achatina fulica* (Ferussac). Treubia 21(1): 183-197

van Benthem Jutting, WSS. 1952. *III. Critical revision of the Javanese Pulmonate Land-snails of the Families Ellobiidae to Limacidae, with an Appendix on Heliocarionidae.* In: *Systematics studies on the non-marine Mollusca of the Indo-Australian Archipelago.* Treubia. Vol.21, Parts 2. Museum Zoologicum Bogoriense, Kebun Raya Indonesia, Bogor, Java. Printed by Archipel – Bogor (Java). Pp. 390-396.

Wade, C.M., P.B. Mordan and B. Clarke. 2001. *A phylogeny of the land snails (Gastropoda: Pulmonata).* Proc. R. Soc. Lond. B 2001 268, 413-422.

Turgeon, D.D., A.E. Bogan, E.V. Coan, W.K. Emerson, W.G. Lyons, P.M. Mikkelsen, J.F. Quin, C.F.E. Roper Jr., G. Rosenberg, B. Roth, M.J. Sweeney, A.H. Scheltema, F.G. Thompson, M. Vecchione, and J.D. Williams. 1998. *Common and Scientific Names of Aquatic Invertebrates from the United States and Canada: Mollusks. 2nd* Ed. American Fisheries Society Special Publication 526. No. 26 pp.

Yogyakarta, 05 September 2018

Rury Eprilurahman, S.Si., M.Sc.
NIP 198104212005011008

Lampiran 2. Surat Keterangan Uji Etik

UMY UNIVERSITAS MUHAMMADIYAH YOGYAKARTA | FAKULTAS KEDOKTERAN DAN ILMU KESEHATAN

Nomor : 631/EP-FKIK-UMY/I/2019

KETERANGAN LOLOS UJI ETIK
ETHICAL APPROVAL

Komite Etik Penelitian Fakultas Kedokteran dan Ilmu Kesehatan Universitas Muhammadiyah Yogyakarta dalam upaya melindungi hak asasi dan kesejahteraan responden/subyek penelitian, telah mengkaji dengan teliti protokol berjudul :

The Ethics Committee of the Faculty of Medicine and Health Sciences, University of Muhammadiyah Yogyakarta, with regards of the protection of human rights and welfare in research, has carefully reviewed the research protocol entitled :

"Uji Fisik dan Iritasi Formulasi Masker Gel *Peel Off* Lendir Bekicot (*Achatina fulica*) Menggunakan Variasi Penambahan Madu"

Peneliti Utama / *Principal Investigator* : Indra Putra Taufani, Fildzah Tsani Azhari

Nama Institusi / *Name of the Institution* : Program Studi Farmasi FKIK UMY

Negara / *Country* : Indonesia

Dan telah menyetujui protokol tersebut diatas.
And approved the above-mentioned protocol.

Yogyakarta, 04 Januari 2019
Ketua
Chairperson

Dr. dr. Titiek Hidayati, M.Kes., Sp.DLP., FISPH., FISCM.

*Peneliti Berkewajiban :
1. Menjaga kerahasiaan identitas subyek penelitian
2. Memberitahukan status penelitian apabila :
   a. Setelah masa berlakunya keterangan lolos uji etik (1 tahun sejak tanggal terbit), penelitian masih belum selesai, dalam hal ini *ethical clearance* harus diperpanjang
   b. Penelitian berhenti di tengah jalan
3. Melaporkan kejadian serius yang tidak diinginkan (*serious adverse events*).
4. Peneliti tidak boleh melakukan tindakan apapun pada responden/subyek sebelum penelitian lolos uji etik.

ADDRESS
Kampus Terpadu UMY Gd. Siti Walidah LT.3
Jl. Brawijaya (Lingkar Selatan)
Tamantirto . Kasihan . Bantul
D.I Yogyakarta 55183

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www.fkik.umy.ac.id

Lampiran 3. Hasil Uji Sediaan Masker Gel *Peel-Off*

a. Uji pH Sediaan Masker Gel *Peel –Off*

Uji pH

Replikasi	Basis I	Basis II	FI	FII	FIII	Lendir Bekicot
I	5,5	5,5	5,5	5,5	5,5	8,5
II	5,5	5,5	5,5	5,5	5,5	8,5
III	5,5	5,5	5,5	5,5	5,5	8,5
RATA-RATA	5,5	5,5	5,5	5,5	5,5	8,5
SD	0	0	0	0	0	0

b. Kecepatan Mengering Sediaan Masker Gel *Peel-Off*

Uji Kecepatan Mengering (detik)

Replikasi	Basis I	Basis II	FI	FII	FIII
I	26,14	26,17	27,3	29,26	30,19
II	26	26,13	27,07	29,36	29,41
III	27,18	25,46	27,01	30,32	29,2
RATA-RATA	26,44	25,92	27,13	29,65	29,6
SD	0,64	0,40	0,15	0,59	0,52

c. Uji Daya Sebar Sediaan Masker Gel *Peel-Off*

Uji Daya Sebar (cm)

Beban 0 g	Basis I	Basis II	FI	FII	FIII
I	2,6	1,8	3,4	2,9	2,7
II	3	3,1	2,4	3,4	3,7
III	3,4	3,5	2,6	3,8	3,4
RATA-RATA	**3,01**	**2,81**	**2,79**	**3,37**	**3,27**
SD	**0,42**	**0,90**	**0,57**	**0,47**	**0,52**

Beban 50 g	**Basis I**	**Basis II**	**FI**	**FII**	**FIII**
I	2,7	1,8	4	2,9	2,8
II	3,4	3,1	2,6	4,2	4,4
III	3,8	4,1	2,5	4,6	3,4
RATA-RATA	**3,28**	**3,00**	**3,03**	**3,91**	**3,51**
SD	**0,56**	**1,12**	**0,84**	**0,90**	**0,83**

Beban 100 g	**Basis I**	**Basis II**	**FI**	**FII**	**FIII**
I	2,7	1,9	4,3	2,9	2,8
II	3,6	3,1	2,8	4,8	4,6
III	4,5	4,4	2,6	5,1	3,4
RATA-RATA	**3,63**	**3,12**	**3,21**	**4,28**	**3,58**
SD	**0,90**	**1,27**	**0,92**	**1,18**	**0,93**
Beban 250 g	**Basis I**	**Basis II**	**FI**	**FII**	**FIII**
I	2,8	1,9	4,5	3,0	2,8
II	3,8	3,1	3,2	5,2	4,9
III	4,7	4,9	2,6	5,3	3,4
RATA-RATA	**3,77**	**3,29**	**3,42**	**4,48**	**3,67**
SD	**0,97**	**1,49**	**0,94**	**1,31**	**1,08**

Beban 500 g	**Basis I**	**Basis II**	**FI**	**FII**	**FIII**
I	2,9	5,7	4,5	3	2,8
II	4,1	3,1	3,7	5,5	5,1
III	5,0	5,2	2,7	5,5	3,4
RATA-RATA	**3,99**	**4,66**	**3,63**	**4,67**	**3,76**
SD	**1,09**	**1,37**	**0,92**	**1,44**	**1,18**

d. Uji Daya Lekat Sediaan Masker Gel *Peel-Off*

Replikasi	Basis I	Basis II	FI	FII	FIII
I	81,31	59,01	44,97	32,89	23,93
II	82,65	70,18	59,55	39,35	39,3
III	70,58	61,09	70,35	59,26	52,1
RATA-RATA	78,18	63,43	58,29	43,83	38,44
SD	6,62	5,94	12,74	13,74	14,10

e. Uji Viskositas Sediaan Masker Gel *Peel-Off*

Uji Viskositas (detik)

Replikasi	Basis I	Basis II	FI	FII	FIII
I	2042	2066	2311	2304	2308
II	2047	2073	2316	2308	2316
III	2056	2069	2318	2292	2320
RATA-RATA	2048,33	2069,33	2315,00	2301,33	2314,67
SD	7,09	3,51	3,61	8,33	6,11

f. Uji Kelembaban Sediaan Masker Gel *Peel-Off*

Formulasi	Panelis	Data Panelis		Selisih
		Sebelum	Sesudah	
Basis FI	I	19,50%	34,40%	14,90%
	II	20,80%	51,70%	30,90%
	III	18,30%	32,50%	14,20%
	IV	20,00%	40,20%	20,20%
	V	11,10%	43,30%	32,20%
Basis FII	I	17,40%	43,60%	26,20%
	II	24,20%	59,80%	35,60%
	III	17,80%	58,70%	40,90%
	IV	12,50%	47,30%	34,80%
	V	10,10%	45,00%	34,90%
FI	I	24,80%	64,90%	40,10%
	II	20,30%	64,00%	43,70%
	III	23,80%	55,80%	32,00%
	IV	22,90%	37,20%	14,30%
	V	23,90%	51,80%	27,90%
FII	I	24,70%	55,80%	31,10%
	II	24,80%	51,90%	27,10%
	III	22,50%	59,90%	37,40%
	IV	21,60%	44,70%	23,10%
	V	24,50%	36,70%	12,20%
FIII	I	23,70%	47,40%	23,70%
	II	11,60%	44,90%	33,30%
	III	23,20%	47,10%	23,90%
	IV	22,40%	37,90%	15,50%
	V	23,70%	41,70%	18,00%

g. Uji Iritasi Sediaan Masker Gel *Peel-Off*

Uji Iritasi Kulit

Formula I	**Skor evaluasi reaksi iritasi kulit**		
Kelinci I	**24 jam**	**48 jam**	**72 jam**
Eritema	1	1	1
Edema	0	0	0
Kelinci II			
Eritema	1	1	1
Edema	0	0	0

Formula II	**Skor evaluasi reaksi iritasi kulit**		
Kelinci I	**24 jam**	**48 jam**	**72 jam**
Eritema	1	1	1
Edema	0	0	0
Kelinci II			
Eritema	1	1	1
Edema	0	0	0

Formula III	**Skor evaluasi reaksi iritasi kuliti**		
Kelinci I	**24 jam**	**48 jam**	**72 jam**
Eritema	1	1	1
Edema	0	0	0
Kelinci II			
Eritema	1	1	1
Edema	0	0	0

Formula Basis	**Skor evaluasi reaksi iritasi kulit**		
Kelinci I	**24 jam**	**48 jam**	**72 jam**
Eritema	0	0	0
Edema	0	0	0
Kelinci II			
Eritema	0	0	0
Edema	0	0	0

Kontrol Positif (SLS)	**Skor evaluasi reaksi iritasi kulit**		
Kelinci I	**24 jam**	**48 jam**	**72 jam**
Eritema	2	3	3
Edema	0	0	1
Kelinci II			
Eritema	2	3	3
Edema	0	0	0

Tanpa Perlakuan	**Skor evaluasi reaksi iritasi kulit**		
Kelinci I	**24 jam**	**48 jam**	**72 jam**
Eritema	0	0	0
Edema	0	0	0
Kelinci II			
Eritema	0	0	0
Edema	0	0	0

Lampiran 4. Hasil Perhitungan Uji Iritasi

a. Formula I

Kelinci I : $\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=1{,}5$

Kelinci II : $\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=1{,}5$

Rata-rata = $\left(\frac{1{,}5+1{,}5}{2}\right)=1{,}5$

Formula I bersifat kurang mengiritasi

b. Formula II

Kelinci I : $\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=1{,}5$

Kelinci II : $\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=1{,}5$

Rata-rata = $\left(\frac{1{,}5+1{,}5}{2}\right)=1{,}5$

Formula II bersifat kurang mengiritasi

c. Formula III

Kelinci I : $\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=1{,}5$

Kelinci II : $\left(\frac{1}{2}+\frac{1}{2}+\frac{1}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=1{,}5$

Rata-rata = $\left(\frac{1{,}5+1{,}5}{2}\right)=1{,}5$

Formula III bersifat kurang mengiritasi

d. Basis Formula

Kelinci I : $\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=0$

Kelinci II : $\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=0$

Rata-rata = $\left(\frac{0+0}{2}\right)=0$

Basis Formula bersifat tidak mengiritasi

e. SLS (Kontrol Positif)

Kelinci I : $\left(\frac{2}{2}+\frac{2}{2}+\frac{3}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{1}{2}\right)=4,5$

Kelinci II : $\left(\frac{2}{2}+\frac{2}{2}+\frac{3}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=4$

Rata-rata = $\left(\frac{4+4,5}{2}\right)=4,25$

Kontrol Positif bersifat iritan berat

f. Kulit Kelinci Tanpa Perlakuan (Kontrol Normal)

Kelinci I : $\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=0$

Kelinci II : $\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)+\left(\frac{0}{2}+\frac{0}{2}+\frac{0}{2}\right)=0$

Rata-rata = $\left(\frac{0+0}{2}\right)=0$

Kontrol Normal bersifat tidak mengiritasi

Lampiran 5. Hasil Uji Statistik

Perbandingan Efektifitas Melembabkan Formula

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	kelompok	Statistic	df	Sig.	Statistic	df	Sig.
kenaikan kelembaban	fomula basis 1	,236	5	,200*	,844	5	,177
	formula basis 2	,324	5	,093	,892	5	,366
	formula 1	,198	5	,200*	,937	5	,646
	formula 2	,172	5	,200*	,981	5	,937
	formula 3	,235	5	,200*	,947	5	,718

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
kenaikan kelembaban	Based on Mean	2,284	4	20	,096
	Based on Median	1,451	4	20	,254
	Based on Median and with adjusted df	1,451	4	14,815	,267
	Based on trimmed mean	2,221	4	20	,103

Data memenuhi syarat yaitu data terdistribusi normal dan homogen, dilanjutkan dengan analisis data menggunakan *One Way ANOVA*.

ANOVA

kenaikan kelembaban

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	62213,760	4	15553,440	1,248	,323
Within Groups	249270,800	20	12463,540		
Total	311484,560	24			

Pos Hoc

Multiple Comparisons

Dependent Variable: kenaikan kelembaban

Tukey HSD

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
fomula basis 1	formula basis 2	-120.00000	70.60748	.456	-331.2840	91.2840
	formula 1	-33.60000	70.60748	.989	-244.8840	177.6840
	formula 2	-37.00000	70.60748	.984	-248.2840	174.2840
	formula 3	28.40000	70.60748	.994	-182.8840	239.6840
formula basis 2	fomula basis 1	120.00000	70.60748	.456	-91.2840	331.2840
	formula 1	86.40000	70.60748	.738	-124.8840	297.6840
	formula 2	83.00000	70.60748	.765	-128.2840	294.2840
	formula 3	148.40000	70.60748	.258	-62.8840	359.6840
formula 1	fomula basis 1	33.60000	70.60748	.989	-177.6840	244.8840
	formula basis 2	-86.40000	70.60748	.738	-297.6840	124.8840
	formula 2	-3.40000	70.60748	1.000	-214.6840	207.8840
	formula 3	62.00000	70.60748	.902	-149.2840	273.2840
formula 2	fomula basis 1	37.00000	70.60748	.984	-174.2840	248.2840
	formula basis 2	-83.00000	70.60748	.765	-294.2840	128.2840
	formula 1	3.40000	70.60748	1.000	-207.8840	214.6840
	formula 3	65.40000	70.60748	.883	-145.8840	276.6840
formula 3	fomula basis 1	-28.40000	70.60748	.994	-239.6840	182.8840
	formula basis 2	-148.40000	70.60748	.258	-359.6840	62.8840
	formula 1	-62.00000	70.60748	.902	-273.2840	149.2840
	formula 2	-65.40000	70.60748	.883	-276.6840	145.8840

kenaikan kelembaban

Tukey HSD[a]

kelompok	N	Subset for alpha = 0.05
		1
formula 3	5	196.4000
fomula basis 1	5	224.8000
formula 1	5	258.4000
formula 2	5	261.8000
formula basis 2	5	344.8000
Sig.		.258

Means for groups in homogeneous subsets are displayed.

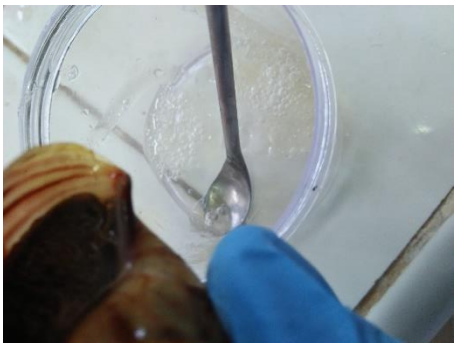
a. Uses Harmonic Mean Sample Size = 5,000.

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference Lower	Upper			
pre tes - pos tes	-27,52400	9,24934	1,84987	-31,34194	-23,70606	-14,879	24	,000

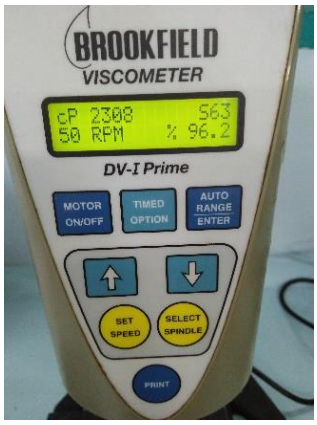
Lampiran 6. Dokumentasi

Bekicot (*Achatina fulica*)

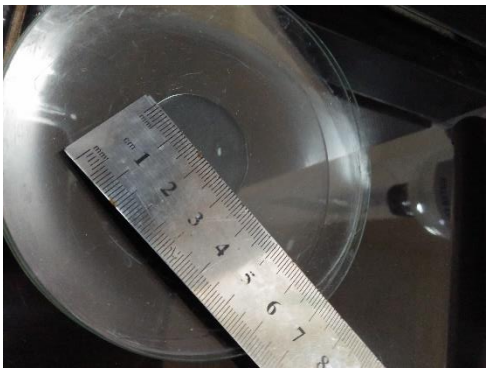


Pengambilan Lendir

Pengukuran pH menggunakan pH stik



Uji Viskositas



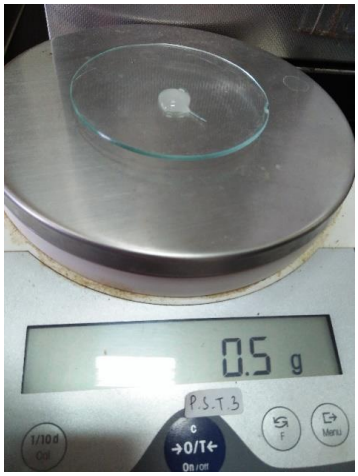
Uji Daya Sebar

Uji Daya Lekat

Uji Kelembaban

Sediaan masker gel *peel-off* lendir bekicot

Uji Homogenitas Sediaan

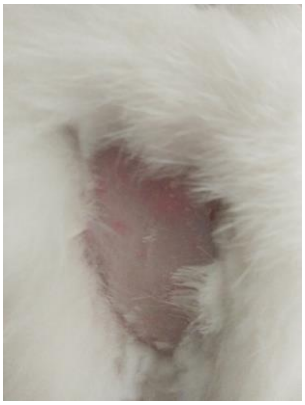


Pengambilan sampel gel sebesar 0,5 mg

Uji Iritasi pada Kelinci

Formula I

Basis



Formula II

SLS (Kontrol Positif)

Formula III

Kulit Normal (Kontrol Negatif)

Lampiran 7. Hasil Turnitin

Fildzah Tsani Azhari turnitin

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