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DAFTAR LAMPIRAN

Lampiran 1.

Surat Permohonan Izin Penelitian di Laboratorium

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS HASANUDDIN
FAKULTAS KEDOKTERAN GIGI
Jl. Perintis Kemerdekaan Km. 10, Makassar 90245
Telepon (0411) 586012, 584641 Faximile (0411) 584641
Website : <http://dent.unhas.ac.id>, Email : fdhsu@unhas.ac.id

No : 3314/UN4.13.1/PT.01.04/2020
Perihal : **Izin Penelitian** 6 Oktober 2021

Kepada Yth.
- Dekan Fakultas Farmasi Unhas
- Dekan Fakultas Ilmu Kelautan dan Perikanan Unhas
- Dekan Fakultas Peternakan
- Dekan Fakultas MIPA Unhas
- Kepala Laboratorium Biofarmaka PKP Unhas
- Kepala Laboratorium Teknik Kimia Politeknik Negeri Ujung Pandang
di Tempat

Dengan hormat kami sampaikan bahwa mahasiswa dari Program Pendidikan Dokter Gigi Spesialis (PPDGS) Bedah Mulut dan Maksillofasial Fakultas Kedokteran Gigi Universitas Hasanuddin bermaksud untuk melakukan penelitian.

Sehubungan dengan hal tersebut, kiranya dapat diberikan **izin penelitian** kepada peneliti di bawah ini:

Nama, NIM : Aksam Hidayat, drg. (J045201003)
Waktu Penelitian : Oktober 2021 s.d. Januari 2022
Tempat Penelitian : Lab. Fitokimia dan Lab. Biofarmasi Fakultas Farmasi Unhas, Lab. Hatchery dan Lab. Parasit dan Penyakit Ikan FIKP Unhas, Lab. Biofarmaka PKP Unhas, Lab. Terpadu Fakultas Peternakan Unhas, Lab. Biokimia Fak. MIPA Unhas dan Lab. Teknik Kimia Politeknik Negeri Ujung Pandang.

Judul Penelitian : "Uji Efektivitas Senyawa Bioaktif Florotanin pada Alga Coklat (*Sargassum Sp.*) sebagai Anti Perdarahan secara in vitro".

Demikian permohonan kami atas perhatian dan kerjasamanya diucapkan terima kasih.

a.n. Dekan
Wakil Dekan Bidang Akademik, Riset dan Inovasi,

Prof. Dr. Edy Machmud, drg., Sp.Pro (K)
NIP-19631104-199401 1 001


Tembusan Yth:
1. Dekan FKG Unhas;
2. Kepala Lab. Fitokimia Fak. Farmasi Unhas;
3. Kepala Lab. Biofarmasi Fak. Farmasi Unhas;
4. Kepala Lab. Hatchery FIKP Unhas;
5. Kepala Lab. Parasit dan Penyakit Ikan FIKP Unhas;
6. Kepala Lab. Terpadu Fak. Peternakan Unhas;
7. Kepala Lab. Biokimia Fak. MIPA Unhas.






Lampiran 2.

Surat izin Komite Etik Penelitian Kesehatan



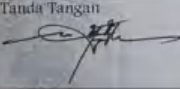
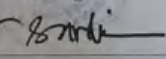
KEMENTERIAN RISET, TEKNOLOGI DAN PENDIDIKAN TINGGI
UNIVERSITAS HASANUDDIN
FAKULTAS KEDOKTERAN GIGI
RUMAH SAKIT GIGI DAN MULUT
KOMITE ETIK PENELITIAN KESEHATAN
Sekretariat : Lantai 2, Gedung Lama RSGM Unhas
Jl. Kondea No. 5 Makassar
Contact Person: drg. Muhammad Ikbal, Sp.Prost/Nur Aedah AR TELP. 08134297101/08114919191



REKOMENDASI PERSETUJUAN ETIK
Nomor: 0089/PL.09/KEPK FKG-RSGM UNHAS/2023

Tanggal: 24 Mei 2023

Dengan ini menyatakan bahwa protokol dan dokumen yang berhubungan dengan protokol berikut ini telah mendapatkan persetujuan etik:

No. Protokol	UH 17120804	No Protokol Sponsor	
Peneliti Utama	Drg. Aksam Hidayat	Sponsor	Pribadi
Judul Peneliti	Uji Efektivitas Senyawa Bioaktif Florotarin pada Alga Cokelat (Sargassum Binderi) sebagai Anti Perdarahan secara In Vitro		
No. Versi Protokol	1	Tanggal Versi	02 Mei 2023
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	1. Laboratorium Hatchery 2. Laboratorium Penyakit dan Parasit Ikan, FIKP Unhas; 3. Laboratorium Biofarmaka, 4. Laboratorium Biofarmasi Fakultas Farmasi Unhas 5. Laboratorium Terpadu Fakultas Peternakan Unhas 6. Laboratorium Teknik Kimia, PNUP Makassar.		
Dokumen Lain			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 24 Mei 2023-24 Mei 2024	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhammad Ikbal, Sp.Prost	Tanda Tangan 	Tanggal

Kewajiban peneliti utama:

- Menyerahkan Amandemen Protokol untuk persetujuan sebelum diimplementasikan
- Menyerahkan laporan SAE ke Komisi Etik dalam 24 jam dan dilengkapi dalam 7 hari dan lapor SUSAR dalam 72 jam setelah peneliti utama menerima laporan.
- Menyerahkan laporan kemajuan (*progress report*) setiap 6 bulan untuk penelitian resiko tinggi dan setiap setahun untuk penelitian resiko rendah.
- Menyerahkan laporan akhir setelah penelitian berakhir.
- Melaporkan penyimpangan dari protokol yang disetujui (*protocol deviation/violation*)
- Mematuhi semua aturan yang berlaku.



Lampiran 3.

Hasil Identifikasi Morfologi Alga Cokelat

Surat keterangan hasil identifikasi morfologi sampel alga cokelat (*Sargassum binderi*) dari perairan pantai Desa Punaga Kabupaten Takalar.



LABORATORIUM PRODUKTIVITAS & KUALITAS PERAIRAN
FAKULTAS ILMU KELAUTAN DAN PERIKANAN
UNIVERSITAS HASANUDDIN
 Jl. Perintis Kemerdekaan, KM 10 Tamalanrea, Makassar, Indonesia 90245
 Telp / Fax : +62-0411-586075, email : fkip@unhas.ac.id, website : http://fkip.unhas.ac.id

Nomor : 01.UM/Lab.Air/XI/2021
 Pemilik Sampel : Iradatullah (FKG UH)
 Tanggal Terima Sampel : 19 November 2021
 Tanggal Sampling : 26 September 2021
 Jumlah Sampel : 1
 Jenis Sampel : Ganggang laut
 Asal Sampel : Pantai Punaga, Kab. Takalar
 Kegiatan : Penelitian S2

DATA HASIL IDENTIFIKASI

Kalsifikasi	Kode Sampel Sampel Uji
Kingdom	Plantae
Divisio	Phaeophyta
Classis	Phaeophyceae
Ordo	Fucales
Familia	Sargassaceae
Genus	Sargassum
Species	<i>Sargassum binderi</i>

Sumber pustaka :
 World Register Of Marine Species

Pranata Lab. Pendidikan (PLP)



Fitriani, S.Si
 Nip 19771012 200112 2 001

Makassar, 22 November 2021



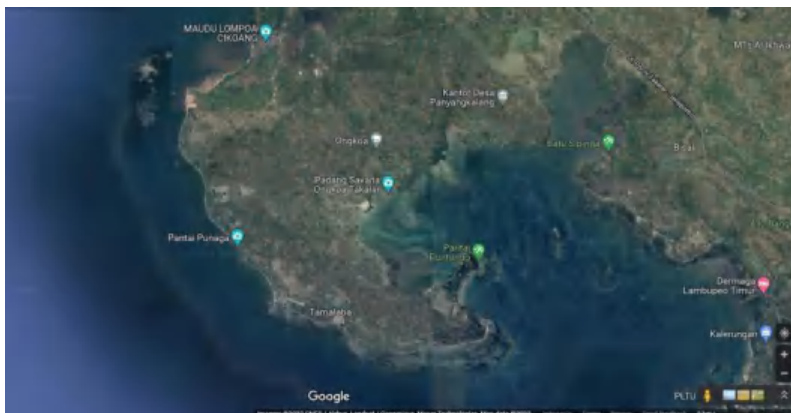
Dr. Ir Hasni Yulianti Azis, MP
 Nip 196407271991032001



Lampiran 4.

Peta Lokasi Pengambilan Sampel

Lokasi Pesisir Pantai Desa Punaga, Kecamatan Mangarabombang, Kabupaten Takalar, Provinsi Sulawesi Selatan ($5^{\circ}34'29.0''S$ $119^{\circ}25'29.4''E$).



Lampiran 5

Uji Normalitas

HASIL UJI NORMALITAS

Tests of Normality

	konsentrasi	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	aquadest	.304	5	.148	.885	5	.333
	1%	.285	5	.200*	.843	5	.173
	2.5%	.254	5	.200*	.920	5	.531
	5%	.288	5	.200*	.883	5	.322
	7.5%	.197	5	.200*	.947	5	.715

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

a. Lilliefors Significance Correction



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Lampiran 6

Uji Homogenitas

HASIL UJI HOMOGENITAS
Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
hasil	Based on Mean	2.098	4	20	.119
	Based on Median	.994	4	20	.433
	Based on Median and with adjusted df	.994	4	15.698	.439
	Based on trimmed mean	2.116	4	20	.117



Lampiran 7

UJI ANOVA (Analysis of Varians)

HASIL UJI ANOVA

ANOVA

hasil

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	13.007	4	3.252	15.074	.000
Within Groups	4.314	20	.216		
Total	17.321	24			



Lampiran 8

HASIL UJI LANJUT

HASIL UJI LANJUT

Tukey

Multiple Comparisons

Dependent Variable: hasil

Tukey HSD

(I) konsentras i	(J) konsentrasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
aquadest	1%	1.88000*	.29375	.000	1.0010	2.7590
	2.5%	1.69600*	.29375	.000	.8170	2.5750
	5%	1.26800*	.29375	.003	.3890	2.1470
	7.5%	.46200	.29375	.530	-.4170	1.3410
1%	aquadest	-1.88000*	.29375	.000	-2.7590	-1.0010
	2.5%	-.18400	.29375	.969	-1.0630	.6950
	5%	-.61200	.29375	.265	-1.4910	.2670
	7.5%	-1.41800*	.29375	.001	-2.2970	-.5390
2.5%	aquadest	-1.69600*	.29375	.000	-2.5750	-.8170
	1%	.18400	.29375	.969	-.6950	1.0630
	5%	-.42800	.29375	.600	-1.3070	.4510
	7.5%	-1.23400*	.29375	.004	-2.1130	-.3550
5%	aquadest	-1.26800*	.29375	.003	-2.1470	-.3890
	1%	.61200	.29375	.265	-.2670	1.4910
	2.5%	.42800	.29375	.600	-.4510	1.3070
	7.5%	-.80600	.29375	.082	-1.6850	.0730
est		-.46200	.29375	.530	-1.3410	.4170



1%	1.41800*	.29375	.001	.5390	2.2970
2.5%	1.23400*	.29375	.004	.3550	2.1130
5%	.80600	.29375	.082	-.0730	1.6850

*. The mean difference is significant at the 0.05 level.



Lampiran 9

Dokumentasi Kegiatan Penelitian



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