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LAMPIRAN

A. Rekomendasi Etik Penelitian



REKOMENDASI PERSETUJUAN ETIK Nomor: 0177/PL09/KEFK FKG-RSGM UNHAS/2021

Tanggal: 27 Desember 2021

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

No. Protokol	UH 17120579	No Protokol Sponsor	
Peneliti Utama	drg. Musthika Jathiasih	Sponsor	Pribadi
Judul Peneliti	Efektivitas Nanopartikel Ekstrak Daun Kelor (<i>Moringa Oleifera</i>) dalam Melarutkan Smear Layer Pada Sepertiga Apikal Dinding Saluran Akar		
No. Versi Protokol	1	Tanggal Versi	16 Desember 2021
No. Versi Protokol		Tanggal Versi	
Tempat Penelitian	1. Laboratorium Mikrostruktur Fisika FMIPA UNM, 2. Laboratorium Biologi FMIPA UNM, 3. Kalultas Teknik Kimia Politeknik Negeri Ujung Pandang UNHAS, 4. RSGMP Unhas, 5. Laboratorium Metalurgi Teknik Mesin, 6. Fakultas Teknik Unhas		
Dokumen Lain			
Jenis Review	<input type="checkbox"/> Exempted <input checked="" type="checkbox"/> Expedited <input type="checkbox"/> Fullboard	Masa Berlaku 27 Desember 2021-27 Desember 2022	Frekuensi Review Lanjutan
Ketua Komisi Etik Penelitian	Nama: Dr. drg. Marhamah, M.Kes	Tanda Tangan 	Tanggal
Sekretaris Komisi Etik Penelitian	Nama: drg. Muhamad Iqbal, Sp.Pros	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.

B. Sertifikat Nanopartikel Ekstrak Daun Kelor (*Moringa oleifera*)

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
UNIVERSITAS NEGERI MAKASSAR



LABORATORIUM MIKROSTRUKTUR JURUSAN FISIKA
Kampus: FMIPA Parang Tambung
Telp. (0411) 840622, Hp. 081 342 211 874

SERTIFICATE OF ANALYSIS

No. 033/UNM/LM/2022

Applicant : drg. Musthika Jathasih
Sample ID : Moringa oleifera leaves extract
Sample received : March 2021
Sample Analyzed : March 2021
Sample Quantity : 3 samples for XRD

ANALYSIS

These samples were analyzed in our laboratory with X-Ray Diffraction (XRD) MiniFlex-Rigaku II and the data was analyzed by using PDXL2

No	Parameter	Unit	Results	Method
1	Intensity as a function of diffraction angle and FWHM determination	1 specimen	The size of the particle is around 2.67 nm	Debye-Scherrer Formula

The results of these analysis is only valid for the sample analyzed.

Makassar, 6 June 2022

Approved by,

Dr. Sabaer, M.Phil., Ph.D
Head of UNM Microstructure Laboratory

C. Hasil analisis uji statistik menggunakan SPSS 26.0 for windows 7.0

Kelompok	Mean	SD	Median	Minimum	Maximum	Nilai p
AS	4,67	0,52	5,00	4,00	5,00	0,000
NaOCl	3,67	0,52	4,00	3,00	4,00	
NaOCl + EDTA	1,17	0,41	1,00	1,00	2,00	
Moringa 5%	1,00	0,00	1,00	1,00	1,00	
Moringa 10%	1,00	0,00	1,00	1,00	1,00	

* Uji Kruskal Wallis

Kelompok		Mean Difference	Nilai p	95% Confidence Interval	
				Lower Bound	Upper Bound
AS	NaOCl	1,00	0,014	0,56	1,44
	NaOCl + EDTA	3,50	0,002	3,06	3,94
	Moringa 5%	3,67	0,002	3,22	4,11
	Moringa 10%	3,67	0,002	3,22	4,11
NaOCl	NaOCl + EDTA	2,50	0,002	2,06	2,94
	Moringa 5%	2,67	0,002	2,22	3,11
	Moringa 10%	2,67	0,002	2,22	3,11
NaOCl + EDTA	Moringa 5%	0,17	0,317	-0,28	0,61
	Moringa 10%	0,17	0,317	-0,28	0,61
Moringa 5%	Moringa 10%	0,00	1,000	-0,44	0,44

* Uji *Mann Whitney* (Post Hoc)

D. Proses pembuatan nanopartikel ekstrak daun kelor (*Moringa oleifera*)



Gambar A. Daun kelor (*Moringa oleifera*) setelah dipetik, B. Pengerinan daun kelor (*Moringa oleifera*) dalam oven, C. Oven tempat untuk pengerinan daun kelor (*Moringa oleifera*), D. Daun kelor (*Moringa oleifera*) yang sudah kering, E. Serbuk daun kelor (*Moringa oleifera*),

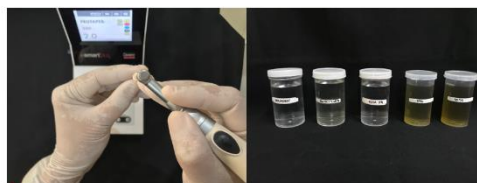


Gambar A. Serbuk daun kelor (*Moringa oleifera*) disaring, B. Serbuk daun kelor (*Moringa oleifera*) ditimbang, C. Larutan daun kelor (*Moringa oleifera*) disentrifugasi, D. Filtrat nanopartikel daun kelor (*Moringa oleifera*) diletakkan di piring ceper, E. Pemisahan filtrat nanopartikel daun kelor (*Moringa oleifera*) setelah proses penguapan etanol, F. Presipitasi menggunakan *Whatman filter paper* no. 42, G. Pemisahan nanopartikel daun kelor (*Moringa oleifera*) dengan air pelarut

E. Proses persiapan sampel dan uji kebersihan *smear layer* dengan CLSM



Gambar A. Sampel berupa gigi premolar permanenn rahang bawah, B. Sampel diletakkan diatas permukaan yang rata dari lembaran malam merah agar memudahkan pengelompokkan, C. Pengukuran panjang akar menyisakan 13 mm untuk persiapan dekoronasi mahkota, D. Konfirmasi panjang kerja menggunakan file #10



Gambar E. Preparasi sampel menggunakan endomotor, F. Larutan irigasi yang akan digunakan pada masing-masing kelompok perlakuan (NaOCl 5,25%, Kombinasi NaOCl 5,25% dan EDTA 10%, Nanopartikel ekstrak daun kelor 5% dan 10%