

LAMPIRAN

Lampiran 1 Ethical Clearance

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|  | KOMISI ETIK PENELITIAN KESEHATAN FAKULTAS KEDOKTERAN GIGI UNIVERSITAS ISLAM SULTAN AGUNG <small>Sekretariat: Fakultas Kedokteran Gigi UNISSULA Jl. Raya Kaligawe Km.04 Semarang 50112 Telp. (024) 6503584, Fax 024-6594346</small> |
| KETERANGAN LOLOS KAJI ETIK DESCRIPTION OF ETHICAL APPROVAL "ETHICAL APPROVAL" No. 263/B.1-KEPK/SA-FKG/XII/2020 | |
| Protokol penelitian yang diusulkan oleh : <i>The research protocol proposed by</i> | |
| Peneliti utama <i>Principal Investigator</i> | : SYAFA LAYINA NUR HANIF |
| Pembimbing <i>Supervisor</i> | : 1. drg. Artina Nurharian, Sp.KG 2. drg. Sheila Indri Novasari, Sp.Ort |
| Nama Institusi <i>Name of the Institution</i> | : FAKULTAS KEDOKTERAN GIGI UNISSULA |
| Tempat Penelitian <i>Research Place</i> | : 1. LABORATORIUM FISIKA FAKULTAS KEDOKTERAN UNISSULA 2. LABORATORIUM MIKROBIOLOGI FAKULTAS KEDOKTERAN UNISSULA |
| Dengan Judul <i>Title</i> | PENGARUH ISOLAT ASLATIC ACID (0,5%, 1%, 2%) DALAM MENGHAMBAT PERTUMBUHAN BAKTERI <i>STREPTOCOCCUS MUTANS</i> Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu: 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bajukan / Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar. |
| <i>Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards : 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion / Guidelines This is as indicated by the fulfillment of the indicators of each standard.</i> | |
| Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 1-Desember 2020 sampai dengan tanggal 1 Desember 2021. <i>This declaration of ethics applies during the period December 1, 2020 until December 1, 2021.</i> | |
| Mengetahui, Wakil Dekan I | Semarang, 24 Desember 2020 Ketua Komisi Etik Penelitian Kesehatan Fakultas Kedokteran Gigi UNISSULA |
|  Dr. drg. Yavita Siti Roshmah, Sp. BM NIK. 210100058 |  Dr. Drg. Sandy Christiono, Sp.KGA NIK. 210100112 |

Lampiran 2 Surat Telah Melakukan Penelitian di IBL Unissula



UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)
INTEGRATED BIOMEDICAL LABORATORY
FAKULTAS KEDOKTERAN
 Jl. Raya Kaligawe KM.4, Semarang 50112
 Tel. +62246583584, email: ibl@unissula.ac.id

Laboratorium Biomedik Terintegrasi

SURAT KETERANGAN
 No. 181/IBL-FK-SA/III/2021

Yang Bertanda tangan di bawah ini :

Nama : dr. Fikri Taufiq, M.Si.Med., Ph.D.
 Jabatan : Kepala Laboratorium Biomedik Terintegrasi FK Unissula

Menerangkan bahwa :

Nama Ketua Peneliti : Syafa Layina Nur Hafid
 NIM/NIK : 511101700083
 Fakultas : Kedokteran Gigi
 Universitas : Islam Sultan Agung
 Judul : Pengaruh Isolat Asiatic Acid (0,5%, 1%, 2%) Dalam Menghambat Pertumbuhan Bakteri *Streptococcus mutans*

Telah selesai melakukan penelitian di Laboratorium Biomedik Terintegrasi Fakultas Kedokteran Universitas Islam Sultan Agung, untuk menunjang penyusunan Tugas Akhir ataupun Laporan Penelitian. Adapun penelitian dilakukan pada Januari 2021, dengan hasil terlampir.

Demikian surat keterangan ini dibuat untuk dapat dipergunakan seperlunya.

Semarang, 9 Maret 2021
 Mengetahui,
 Kepala Lab. Biomedik Terintegrasi
 Fakultas Kedokteran Unissula



dr. Fikri Taufiq, M.Si.Med., Ph.D.
 NIK.210111136

Lampiran 3 Hasil Analisis Data Uji Normalitas

| | | Tests of Normality | | | | | |
|-------------|-------------------|---------------------------------|----|------|--------------|----|------|
| | | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
| | Kelompok | Statistic | df | Sig. | Statistic | df | Sig. |
| Zona_Hambat | Asiatic Acid 0,5% | . | 6 | . | . | 6 | . |
| | Asiatic Acid 1% | ,308 | 6 | ,078 | ,756 | 6 | ,023 |
| | Asiatic Acid 2% | ,407 | 6 | ,002 | ,640 | 6 | ,001 |
| | Aquadest | . | 6 | . | . | 6 | . |

a. Lilliefors Significance Correction

Uji Homogenitas dan *Leviene Test*

| | | Test of Homogeneity of Variance | | | |
|-------------|--------------------------------------|---------------------------------|-----|-------|------|
| | | Levene Statistic | df1 | df2 | Sig. |
| Zona_Hambat | Based on Mean | 29,772 | 3 | 20 | ,000 |
| | Based on Median | 4,586 | 3 | 20 | ,013 |
| | Based on Median and with adjusted df | 4,586 | 3 | 5,228 | ,064 |
| | Based on trimmed mean | 25,819 | 3 | 20 | ,000 |

Uji Kruskal Wallis

Test Statistics^{a,b}

| Zona_Hambat | |
|------------------|--------|
| Kruskal-Wallis H | 17,590 |
| df | 3 |
| Asymp. Sig. | ,001 |

a. Kruskal Wallis Test

b. Grouping Variable: Kelompok

Uji Mann-Whitney

A. Kelompok 1

| | | Ranks | | |
|-------------|-------------------|-------|-----------|--------------|
| | Kelompok | N | Mean Rank | Sum of Ranks |
| Zona_Hambat | Asiatic Acid 0,5% | 6 | 4,50 | 27,00 |
| | Asiatic Acid 1% | 6 | 8,50 | 51,00 |
| | Total | 12 | | |

Test Statistics^a

| | | Zona_Hambat |
|--------------------------------|--|-------------------|
| Mann-Whitney U | | 6,000 |
| Wilcoxon W | | 27,000 |
| Z | | -2,286 |
| Asymp. Sig. (2-tailed) | | ,022 |
| Exact Sig. [2*(1-tailed Sig.)] | | ,065 ^b |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

B. Kelompok 2

| | | Ranks | | |
|-------------|-------------------|-------|-----------|--------------|
| | Kelompok | N | Mean Rank | Sum of Ranks |
| Zona_Hambat | Asiatic Acid 0,5% | 6 | 3,50 | 21,00 |
| | Asiatic Acid 2% | 6 | 9,50 | 57,00 |
| | Total | 12 | | |

Test Statistics^a

| | | Zona_Hambat |
|--------------------------------|--|-------------------|
| Mann-Whitney U | | ,000 |
| Wilcoxon W | | 21,000 |
| Z | | -3,146 |
| Asymp. Sig. (2-tailed) | | ,002 |
| Exact Sig. [2*(1-tailed Sig.)] | | ,002 ^b |

- a. Grouping Variable: Kelompok
b. Not corrected for ties.

C. Kelompok 3

| | | Ranks | | |
|-------------|-------------------|-------|-----------|--------------|
| | Kelompok | N | Mean Rank | Sum of Ranks |
| Zona_Hambat | Asiatic Acid 0,5% | 6 | 6,50 | 39,00 |
| | Aquadest | 6 | 6,50 | 39,00 |
| | Total | 12 | | |

Test Statistics^a

| | | Zona_Hambat |
|--------------------------------|--|--------------------|
| Mann-Whitney U | | 18,000 |
| Wilcoxon W | | 39,000 |
| Z | | ,000 |
| Asymp. Sig. (2-tailed) | | 1,000 |
| Exact Sig. [2*(1-tailed Sig.)] | | 1,000 ^b |

- a. Grouping Variable: Kelompok
b. Not corrected for ties.

D. Kelompok 4

| | | Ranks | | |
|-------------|-----------------|-------|-----------|--------------|
| | Kelompok | N | Mean Rank | Sum of Ranks |
| Zona_Hambat | Asiatic Acid 1% | 6 | 4,67 | 28,00 |
| | Asiatic Acid 2% | 6 | 8,33 | 50,00 |
| | Total | 12 | | |

Test Statistics^a

| | | Zona_Hambat |
|----------------|--|-------------|
| Mann-Whitney U | | 7,000 |
| Wilcoxon W | | 28,000 |

| | |
|--------------------------------|-------------------|
| Z | -1,844 |
| Asymp. Sig. (2-tailed) | ,065 |
| Exact Sig. [2*(1-tailed Sig.)] | ,093 ^b |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

E. Kelompok 5

| | | Ranks | | |
|-------------|-----------------|-------|-----------|--------------|
| | Kelompok | N | Mean Rank | Sum of Ranks |
| Zona_Hambat | Asiatic Acid 1% | 6 | 8,50 | 51,00 |
| | Aquadest | 6 | 4,50 | 27,00 |
| | Total | 12 | | |

| Test Statistics ^a | | Zona_Hambat |
|--------------------------------|--|-------------------|
| Mann-Whitney U | | 6,000 |
| Wilcoxon W | | 27,000 |
| Z | | -2,286 |
| Asymp. Sig. (2-tailed) | | ,022 |
| Exact Sig. [2*(1-tailed Sig.)] | | ,065 ^b |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

F. Kelompok 6

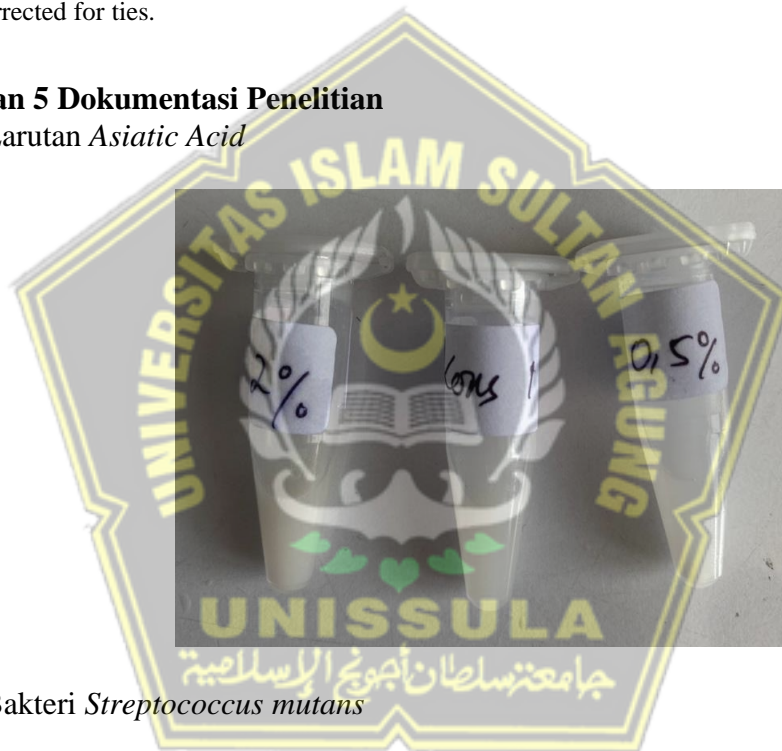
| | | Ranks | | |
|-------------|-----------------|-------|-----------|--------------|
| | Kelompok | N | Mean Rank | Sum of Ranks |
| Zona_Hambat | Asiatic Acid 2% | 6 | 9,50 | 57,00 |
| | Aquadest | 6 | 3,50 | 21,00 |
| | Total | 12 | | |

Test Statistics^a

| | Zona_Hambat |
|--------------------------------|-------------------|
| Mann-Whitney U | ,000 |
| Wilcoxon W | 21,000 |
| Z | -3,146 |
| Asymp. Sig. (2-tailed) | ,002 |
| Exact Sig. [2*(1-tailed Sig.)] | ,002 ^b |

a. Grouping Variable: Kelompok

b. Not corrected for ties.

Lampiran 5 Dokumentasi Penelitian**A. Larutan Asiatic Acid****B. Bakteri *Streptococcus mutans***



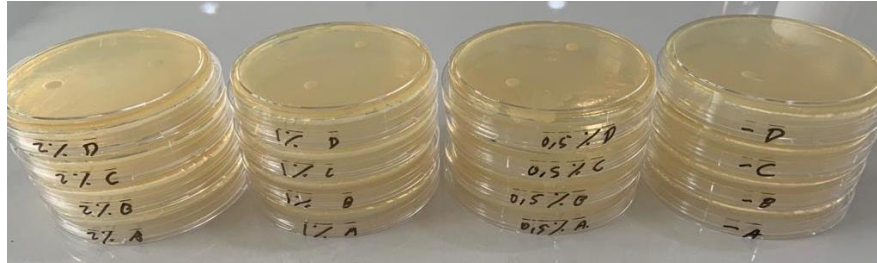
C. Mc Farland



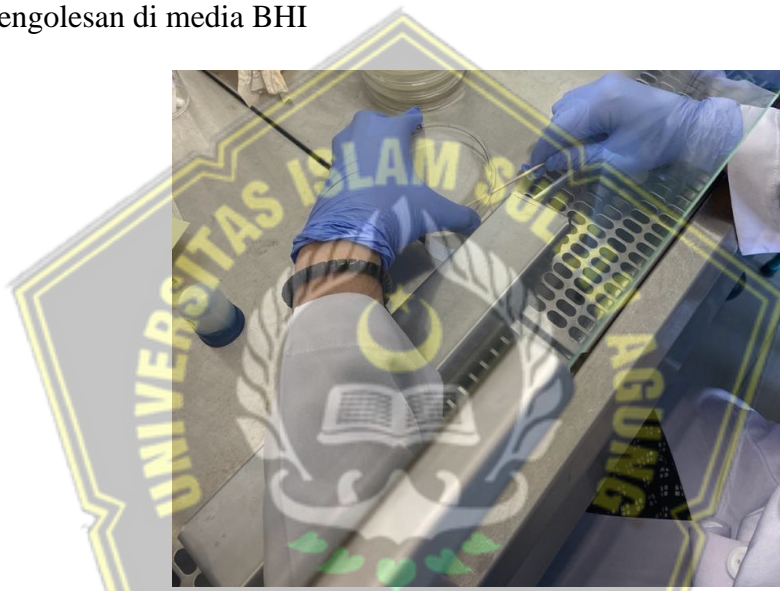
D. Anaerobic Jar



E. Preparat yang berisi Bakteri *Streptococcus mutans*



F. Pengolesan di media BHI



G. Media BHI diberi disk



H. Ditetesi dengan Larutan



KTI SYAFA LAYINA NUR HANIF

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