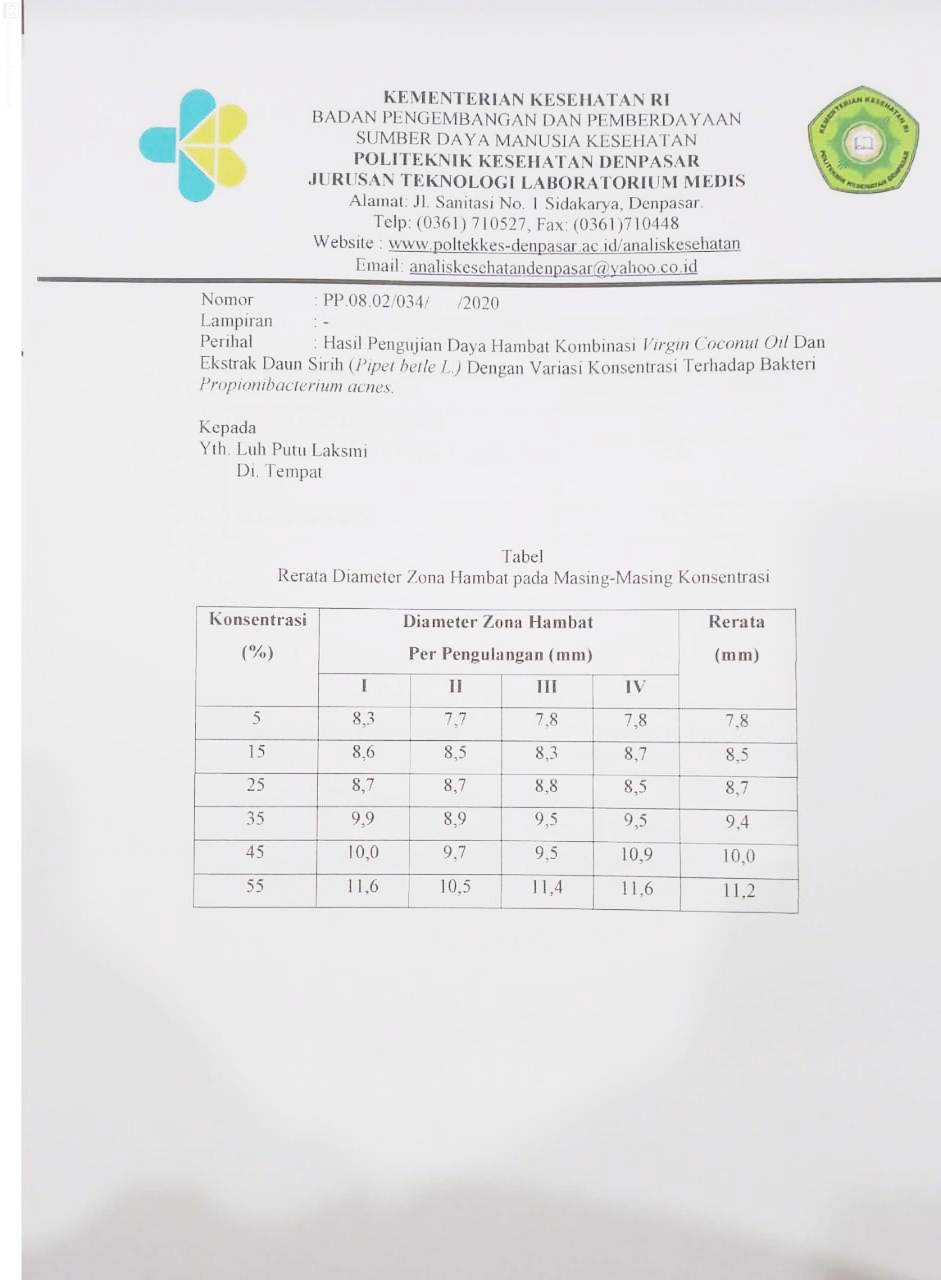
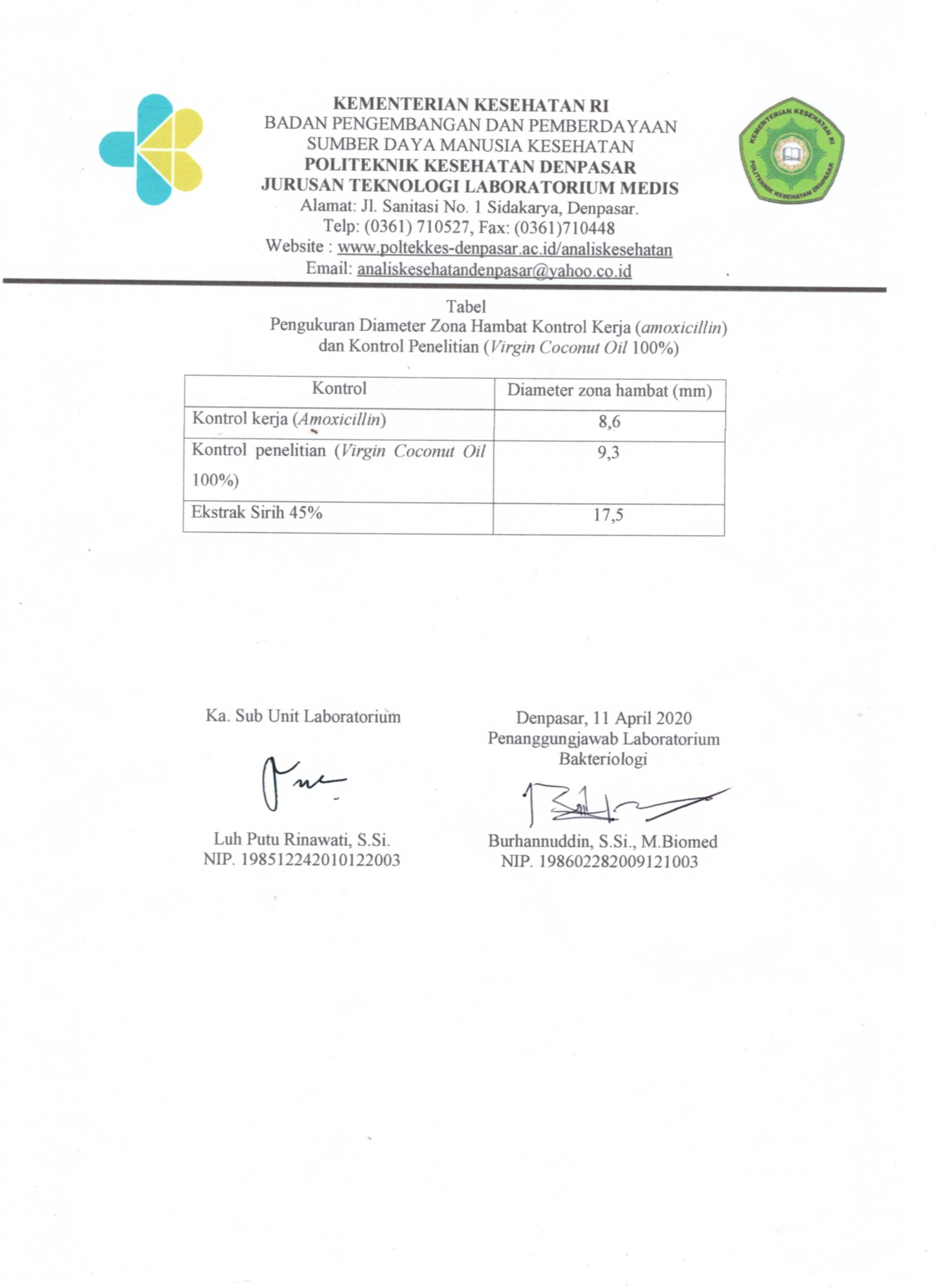
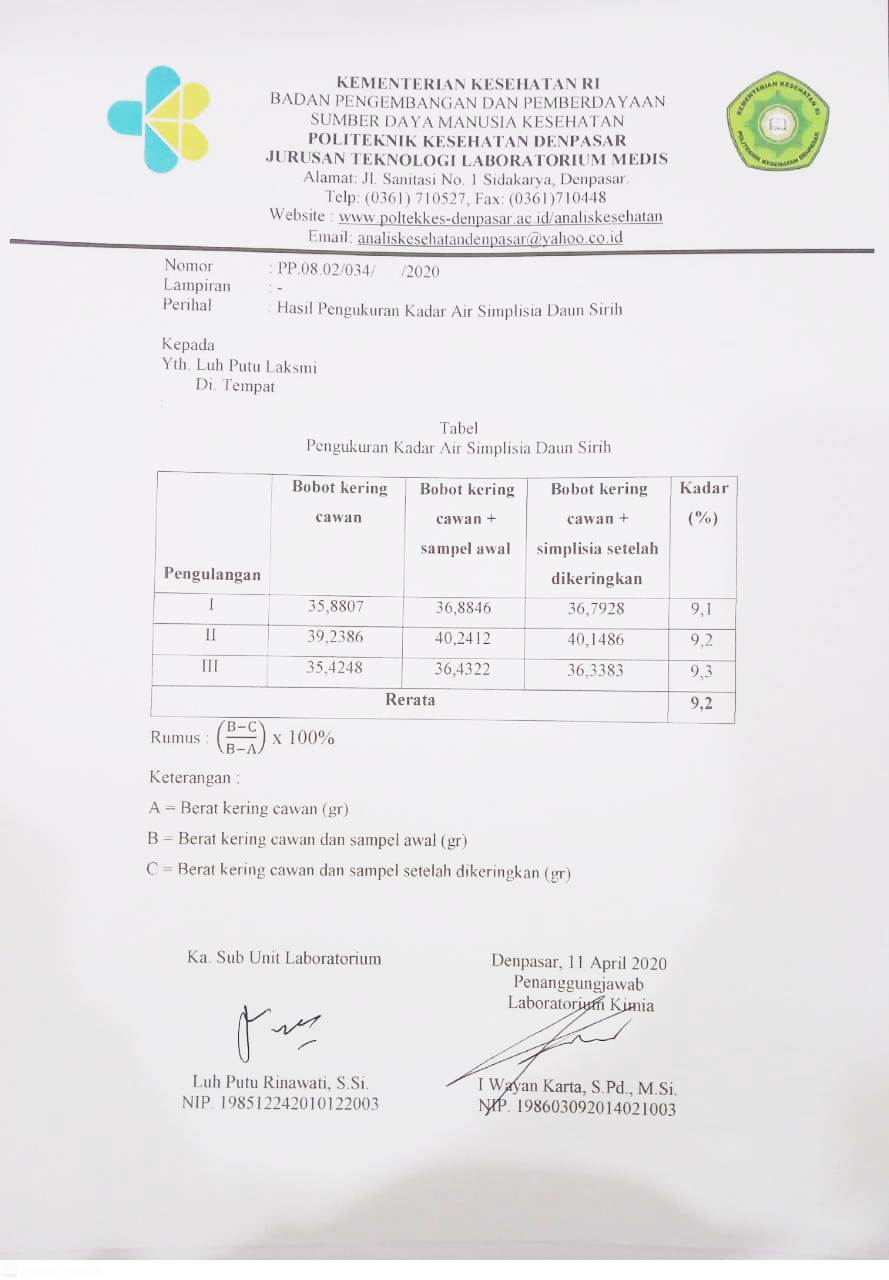
**Lampiran 1. Data Hasil Pengukuran Diameter Zona Hambat kombinaasi VCO dan Ekstrak Daun Sirih dengan Variasi Konsentrasi Terhadap Pertumbuhan Bakteri *Propionibacterium acnes***

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**Lampiran 2. Data Hasil Pengukuran Kadar Air Simplisia Daun Sirih**

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**Lampiran 3. Rumus Dan Perhitungan Rendemen Ekstrak Daun Sirih**

Rumus :

% rendemen ekstrak sampel kering : x 100%

% rendemen ekstrak sampel segar : x 100%

% sampel kering : x 100%

Perhitungan :  
Sampel basah : 2,5 kg = 2.500 g

Sampel kering : 500 g

Berat simplisia : 400 g

Simplisia yang digunakan : 150 g x 2500 = 750 bahan basah

% rendemen ekstrak sampel kering : x 100% = 30,6%

% rendemen ekstrak sampel segar : x 100% = 6,12%

% sampel kering : x 100% = 16%

**Lampiran 4. Rumus dan perhitungan kadar air ekstrak**

|  |  |  |  |
| --- | --- | --- | --- |
| Cawan | A | B | C |
| I | 35,8807 | 36,8846 | 36,7928 |
| II | 39,2386 | 40,2412 | 40,1486 |
| III | 35,4248 | 36,4322 | 36,3383 |

keterangan :

Rumus = x 100%

A = Berat kering cawan (gr)

B = Berat kering cawan dan sampel awal (gr)

C = Berat kering cawan dan sampel setelah dikeringkan (gr) (Kumesan, Pandey dan Lohoo, 2017).

Perhitungan:

Cawan I : x 100% = 9,1%

Cawan II : x 100% = 9,2%

Cawan II : x 100% = 9,3%

Rata-rata kadar air : = 9,2%

**Lampiran 5. Hasil Uji Statistik**

1. Hasil uji normalitas (*kolmogrov-smirnov)*

|  |  |  |  |
| --- | --- | --- | --- |
| **One-Sample Kolmogorov-Smirnov Test** | | | |
|  | | Kosentrasi ekstrak dan vco | hasil daya hambat |
| N | | 24 | 24 |
| Normal Parametersa,b | Mean | 3.5000 | 9.304 |
| Std. Deviation | 1.74456 | 1.1933 |
| Most Extreme Differences | Absolute | .138 | .174 |
| Positive | .138 | .174 |
| Negative | -.138 | -.089 |
| Kolmogorov-Smirnov Z | | .678 | .854 |
| Asymp. Sig. (2-tailed) | | .748 | .460 |
| a. Test distribution is Normal. | | | |
| b. Calculated from data. | | | |

1. **Hasil uji anova**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | |
| Hasil daya hambat | | | | | | | | |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| Lower Bound | Upper Bound |
| 5% | 4 | 7.875 | .2872 | .1436 | 7.418 | 8.332 | 7.7 | 8.3 |
| 15% | 4 | 8.525 | .1708 | .0854 | 8.253 | 8.797 | 8.3 | 8.7 |
| 25% | 4 | 8.675 | .1258 | .0629 | 8.475 | 8.875 | 8.5 | 8.8 |
| 35% | 4 | 9.450 | .4123 | .2062 | 8.794 | 10.106 | 8.9 | 9.9 |
| 45% | 4 | 10.025 | .6185 | .3092 | 9.041 | 11.009 | 9.5 | 10.9 |
| 55% | 4 | 11.275 | .5252 | .2626 | 10.439 | 12.111 | 10.5 | 11.6 |
| Total | 24 | 9.304 | 1.1933 | .2436 | 8.800 | 9.808 | 7.7 | 11.6 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | |
| hasil daya hambat | | | |
| Levene Statistic | df1 | df2 | Sig. |
| 1.526 | 5 | 18 | .231 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | |
| hasil daya hambat | | | | | |
|  | Sum of Squares | Df | Mean Square | F | Sig. |
| Between Groups | 29.882 | 5 | 5.976 | 37.515 | .000 |
| Within Groups | 2.868 | 18 | .159 |  |  |
| Total | 32.750 | 23 |  |  |  |

1. **Hasil uji LSD**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | |
| Dependent Variable: hasil daya hambat | | | | | | |
| LSD | | | | | | |
| (I) Kosentrasi | (J) Kosentrasi | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| 5% | 15% | -.6500\* | .2822 | .033 | -1.243 | -.057 |
| 25% | -.8000\* | .2822 | .011 | -1.393 | -.207 |
| 35% | -1.5750\* | .2822 | .000 | -2.168 | -.982 |
| 45% | -2.1500\* | .2822 | .000 | -2.743 | -1.557 |
| 55% | -3.4000\* | .2822 | .000 | -3.993 | -2.807 |
| 15% | 5% | .6500\* | .2822 | .033 | .057 | 1.243 |
| 25% | -.1500 | .2822 | .602 | -.743 | .443 |
| 35% | -.9250\* | .2822 | .004 | -1.518 | -.332 |
| 45% | -1.5000\* | .2822 | .000 | -2.093 | -.907 |
| 55% | -2.7500\* | .2822 | .000 | -3.343 | -2.157 |
| 25% | 5% | .8000\* | .2822 | .011 | .207 | 1.393 |
| 15% | .1500 | .2822 | .602 | -.443 | .743 |
| 35% | -.7750\* | .2822 | .013 | -1.368 | -.182 |
| 45% | -1.3500\* | .2822 | .000 | -1.943 | -.757 |
| 55% | -2.6000\* | .2822 | .000 | -3.193 | -2.007 |
| 35% | 5% | 1.5750\* | .2822 | .000 | .982 | 2.168 |
| 15% | .9250\* | .2822 | .004 | .332 | 1.518 |
| 25% | .7750\* | .2822 | .013 | .182 | 1.368 |
| 45% | -.5750 | .2822 | .057 | -1.168 | .018 |
| 55% | -1.8250\* | .2822 | .000 | -2.418 | -1.232 |
| 45% | 5% | 2.1500\* | .2822 | .000 | 1.557 | 2.743 |
| 15% | 1.5000\* | .2822 | .000 | .907 | 2.093 |
| 25% | 1.3500\* | .2822 | .000 | .757 | 1.943 |
| 35% | .5750 | .2822 | .057 | -.018 | 1.168 |
| 55% | -1.2500\* | .2822 | .000 | -1.843 | -.657 |
| 55% | 5% | 3.4000\* | .2822 | .000 | 2.807 | 3.993 |
| 15% | 2.7500\* | .2822 | .000 | 2.157 | 3.343 |
| 25% | 2.6000\* | .2822 | .000 | 2.007 | 3.193 |
| 35% | 1.8250\* | .2822 | .000 | 1.232 | 2.418 |
| 45% | 1.2500\* | .2822 | .000 | .657 | 1.843 |
| \*. The mean difference is significant at the 0.05 level. | | | | | | |

**Lampiran 6. Gambar Alat dan Bahan serta Kegiatan Penelitian**

1. **Gambar alat penelitian**

|  |  |
| --- | --- |
| Autoclave | Mikropipet |
| BSC | Plate |
| Inkubator | Neraca analitik |
| Densitometer | Ose bulat, batang penganduk, dan spatula |
| penelitian_200428_0001.jpg  Alat r*otary evaporator* | tabung reaksi.jpg  Tabung reaksi dan rak tabung |

1. **Gambar bahan penelitian**

|  |  |
| --- | --- |
| P_20190228_101212  Daun sirih | C:\Users\LUQMAN LAPTOP\AppData\Local\Microsoft\Windows\INetCache\Content.Word\P_20190302_164154.jpg  Etanol 96% |
| Screenshot_20190420-143223  Tween 80 | Berbagai variasi konsentrasi kombinasi vco dan ekstrak daun sirih |
| Media MHA | Suspensi bakteri 0.5 *Mc. Farland* |
| kultur bakteri.jpg  Kultur bakteri *Propionibacterium acnes* | Aquades steril |

|  |  |
| --- | --- |
| Larutan NaCl | Cotton swab |

1. **Kegiatan penelitian**

|  |  |
| --- | --- |
| IMG_7386.JPG  Proses sortasi daun sirih | IMG_7390.JPG  Proses penimbangan sampel basah |
| IMG_7389.JPG  Proses pengeringan sampel daun sirih | IMG_7399.JPG  Daun sirih yang telah kering |
| P_20190303_133802  Proses penambahan etanol 96% pada simplisia daun sirih untuk maserasi | C:\Users\LUQMAN LAPTOP\AppData\Local\Microsoft\Windows\INetCache\Content.Word\P_20190310_113544.jpg  Proses maserasi dibantu alat *magnetic stirrer* |
| C:\Users\LUQMAN LAPTOP\AppData\Local\Microsoft\Windows\INetCache\Content.Word\P_20190310_124647.jpg  Proses penyaringan | C:\Users\LUQMAN LAPTOP\AppData\Local\Microsoft\Windows\INetCache\Content.Word\1555741704100.jpg  Proses evaporasi |
| Proses uji kadar air simplisia daun sirih | Penimbangan ekstrak kental |
| Kti_200428_0011.jpg  Proses penjenuhan kombinasi VCO dan ekstrak daun sirih kedalam cakram disk kosong | Kti_200428_0008.jpg  Proses penanaman suspensi bakteri 0,5 *Mc. Farland* ke media MHA |
| IMG_7270.JPG  Proses penanaman cakram disk ke media MHA yang berisi bakteri *Propionibacterium acnes* | penelitian_200428_0004.jpg  Pengukuran diameter zona hambat |
| IMG_7750.JPG  Diameter zona hambat konsentrasi 5% | IMG_7751.JPG  Diameter zona hambat konsentrasi 15% |
| 25%.JPG  Diameter zona hambat konsentrasi 25% | 35%.JPG  Diameter zona hambat konsentrasi 35% |
| 45%.JPG  Diameter zona hambat konsentrasi 45% | 55%.JPG  Diameter zona hambat konsentrasi 55% |
| 1 kontrol.JPG  **B**  **B**  **A**  **C**  Pengukuran zona hambat kontrol. Ket. A. ekstrak daun sirih 45%, B. VCO 100%, C. antibiotik amoksisilin. | IMG_7719.JPG  Pengukuran diameter zona hambat pada semua konsentrasi |

**Lampiran 7. Rekomendasi ujian akhir program**

