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Lampiran 1. Hasil determinasi tanaman daun salam (*Syzygium polyanthum* (Wight) Walp)



UPT LABORATORIUM UNIVERSITAS SETIA BUDI SURAKARTA

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Nomor : 319/DET-UPT-LAB/14.12.2021
Hal : Hasil determinasi tumbuhan
Lamp. : -

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Universitas Setia Budi, Surakarta.
Nama sampel : Salam / *Syzygium polyanthum* (Wight) Walp.

HASIL DETERMINASI TUMBUHAN

Klasifikasi

Kingdom : Plantae
Super Divisi : Spermatophyta
Divisi : Magnoliophyta
Kelas : Magnoliopsida
Ordo : Myrtales
Famili : Myrtaceae
Genus : *Syzygium*
Species : *Syzygium polyanthum* (Wight) Walp.

Hasil Determinasi menurut: C.A. Backer & R.C. Bakhuizen van den Brink Jr. (1963)

1b - 2b - 3b - 4b - 12b - 13b - 14b - 17b - 18b - 19b - 20b - 21b - 22b - 23b - 24b - 25b
- 26b - 27a - 28b - 29b - 30b - 31b - 403a - 414a - 415a - 416b - 417b - 418a - 419c -
420b - 421b - 422b - 426b - 428b - 429a - 430b - 431b - 432a. Familia 84. Myrtaceae.1a -

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2b - 3b - 7b - 8b - 9b - 10b. *Syzygium*. 1b - 7b - 8b - 11a - 12b. *Syzygium polyanthum* (Wight) Walp.

Deskripsi:

Habitus : Pohon satu perdu.
Akar : Sistem akar tunggang.
Batang : Percabangan monopodial
Daun : Daun tunggal, berhadapan (*opposite*), permukaan daun glabrous, helian daun memanjang (*oblong-elliptical*) hingga lanset, ukuran 5-16 cm x 2,5 - 7 cm, tangkai daun 1-12 mm, bunga berbentuk penicil muncul di bawah daun atau ketiak daun (*axillary*). Bunga sesil, biseksual, beraroma, warna putih, kalyx bentuk mangkok, petala bebas warna putih, stamen tersusun dalam 4 kelompok warna oranye-kuning. Buah merupakan buah berry dengan 1 biji warna merah hingga ungu kehitaman.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 14 Desember 2021

Penanggung jawab
Determinasi Tumbuhan



Dr. Dewi Sulistyawati, M.Sc.

Lampiran 2. Perhitungan persentase bobot kering terhadap bobot basah daun salam

Bobot Basah (gram)	Bobot Kering (gram)	Rendemen (%b/b)
12.000	1.200	10%

Perhitungan:

$$\begin{aligned}
 \% \text{ rendemen kering} &= \frac{\text{Bobot kering}}{\text{Bobot basah}} \times 100\% \\
 &= \frac{1.200}{12.000} \times 100\% \\
 &= 10\%
 \end{aligned}$$

Lampiran 3. Perhitungan persentase rendemen serbuk daun salam

Sampel	Bobot kering (gram)	Bobot serbuk (gram)	Rendemen (%)
Daun Salam	1.200	1.100	91,67 %

Perhitungan:

$$\begin{aligned}
 \% \text{ rendemen serbuk} &= \frac{\text{Bobot serbuk}}{\text{Bobot kering}} \times 100\% \\
 &= \frac{1.100}{1.200} \times 100\% \\
 &= 91,67\%
 \end{aligned}$$

Lampiran 4. Perhitungan kadar air serbuk daun salam

No	Bobot serbuk (g)	Volume air (mL)	Kadar air (%v/b)
1	20	1,3	6,5
2	20	1,4	7
3	20	1	5
Rata – rata ± SD			6,17 ± 1,41

$$\begin{aligned}
 \text{Rata-Rata kadar air serbuk} &= \frac{\text{Volume air}}{\text{replikasi}} \times 100 \% \\
 &= \frac{6,5+7+5}{3} \times 100 \% = 6,17 \%
 \end{aligned}$$

Lampiran 5. Perhitungan susut pengeringan serbuk daun salam

Sampel	Penimbangan (gram)	Susut pengeringan (%)
Ekstrak	2,00	3,50
	2,00	3,00
	2,00	3,60
Rata-Rata ± SD		3,37±0,32

Perhitungan :

$$\begin{aligned}
 \text{Rata-rata} &= \frac{\text{Susut pengeringan}}{\text{replikasi}} \times 100\% \\
 &= \frac{3,5+3,0+3,6}{3} \times 100\% \\
 &= 3,37\%
 \end{aligned}$$

Lampiran 6. Perhitungan kadar abu total serbuk daun salam

Pengujian	Hasil (g/mL)			Rerata (%) ± SD
	I	II	III	
Kadar abu	4,36 %	4,14 %	4,33%	4,28±0,12

Perhitungan :

Replikasi 1

Bobot krus (a) :26,314 gram

Bobot krus +Serbuk (b) :28,334 gram

Bobot+ abu (c) :26,402 gram

$$\begin{aligned}
 \% \text{ Kadar abu} &= \frac{\text{Bobot (c)} - \text{Bobot (a)}}{\text{Bobot (b)} - \text{Bobot (a)}} \times 100\% \\
 &= \frac{26,402 - 26,314}{28,334 - 26,314} \times 100\% \\
 &= \frac{0,088}{2,02} \times 100\% = 4,36\%
 \end{aligned}$$

Replikasi 2

Bobot krus (a) :26,002 gram

Bobot krus +Serbuk (b) :28,054 gram

Bobot+ abu (c) :26,087 gram

$$\begin{aligned} \% \text{ Kadar abu} &= \frac{\text{Bobot (c)} - \text{Bobot (a)}}{\text{Bobot (b)} - \text{Bobot (a)}} \times 100\% \\ &= \frac{26,087 - 26,002}{28,054 - 26,002} \times 100\% \\ &= \frac{0,085}{2,052} \times 100\% = 4,14 \% \end{aligned}$$

Replikasi 3

Bobot krus (a) :26,031 gram

Bobot krus +Serbuk (b) :28,042 gram

Bobot+ abu (c) :26,118 gram

$$\begin{aligned} \% \text{ Kadar abu} &= \frac{\text{Bobot (c)} - \text{Bobot (a)}}{\text{Bobot (b)} - \text{Bobot (a)}} \times 100\% \\ &= \frac{26,118 - 26,031}{28,042 - 26,031} \times 100\% \\ &= \frac{0,087}{2,011} \times 100\% = 4,33 \% \end{aligned}$$

$$\text{Rata-rata : } \frac{4,36 + 4,14 + 4,33}{3} = 4,28 \%$$

Lampiran 7. Perhitungan persentase rendemen ekstrak etanol daun salam

Bobot serbuk (g)	Berat ekstrak (g)	Rendemen (%b/b)
600	123	20,50 %

Perhitungan :

$$\begin{aligned} \% \text{ rendemen serbuk} &= \frac{\text{Bobot ekstrak}}{\text{Bobot serbuk}} \times 100\% \\ &= \frac{123}{600} \times 100\% \\ &= 20,5 \% \end{aligned}$$

Lampiran 8. Perhitungan persentase susut pengeringan ekstrak etanol daun salam

Sampel	Penimbangan (gram)	Susut pengeringan (%)
Ekstrak	2,00	5,90
	2,00	6,40
	2,00	6,90
Rata-Rata ± SD		6,4±0,50

$$\begin{aligned}
 \text{Rata-rata} &= \frac{\text{Susut pengeringan}}{\text{replikasi}} \times 100\% \\
 &= \frac{5,9+6,4+6,9}{3} \times 100\% \\
 &= 6,40 \%
 \end{aligned}$$

Lampiran 9. Perhitungan bobot jenis ekstrak daun salam

Pengujian	Hasil (g/mL)			Rerata ± SD
	I	II	III	
Bobot jenis	0,800	0,802	0,804	0,802 ±0,002

Perhitungan :

Replikasi 1

Bobot pikno kosong :27,8659 gram

Bobot pikno air :78,0020 gram

Bobot pikno setelah air :28,0718 gram

Bobot air :50,1361 gram

Bobot ekstrak+pikno :67,9785 gram

Bobot ekstrak :40,1126 gram

$$\begin{aligned}
 \text{BJ} &= \frac{\text{Bobot ekstrak}}{\text{air}} \\
 &= \frac{40,1126 \text{ gram}}{50,1361 \text{ gram}} \\
 &= 0,800 \text{ g/mL}
 \end{aligned}$$

Replikasi 2

Bobot pikno kosong	:28,5058 gram
Bobot pikno air	:77,6908 gram
Bobot pikno setelah air	:28,8650 gram
Bobot air	:49,185 gram
Bobot ekstrak+pikno	: 67,9791 gram
Bobot ekstrak	:39,4733 gram

$$\begin{aligned}
 \text{BJ} &= \frac{\text{Bobot ekstrak}}{\text{air}} \\
 &= \frac{39,4733 \text{ gram}}{49,185 \text{ gram}} \\
 &= 0,802 \text{ g/mL}
 \end{aligned}$$

Replikasi 3









Bobot pikno kosong	:27,8724 gram
Bobot pikno air	:77,7678 gram
Bobot pikno setelah air	:28,5054 gram
Bobot air	:49,8954 gram
Bobot ekstrak+pikno	: 67,9793 gram
Bobot ekstrak	:40,1069 gram

$$\begin{aligned}
 \text{BJ} &= \frac{\text{Bobot ekstrak}}{\text{air}} \\
 &= \frac{40,1069}{49,8954} \\
 &= 0,804 \text{ g/mL}
 \end{aligned}$$

Rata-Rata bobot jenis



$$\begin{aligned}
 &= \frac{0,800+0,802+0,804}{3} \\
 &= 0,802 \text{ gram/mL}
 \end{aligned}$$









Lampiran 10. Alat penelitian

<p>Ayakan mesh 60</p> 	<p><i>Rotary evaporator</i></p> 
<p>Oven</p> 	<p><i>Moisture balance</i></p> 
<p><i>Sterling-Bidwell</i></p> 	<p>Timbangan analitik</p> 
<p>Desikator</p> 	<p>Alat daya lekat</p> 







<p style="text-align: center;">Autoklaf</p> 	<p style="text-align: center;">Inkubator</p> 
<p style="text-align: center;">Bunsen</p> 	<p style="text-align: center;">Vortex</p> 
<p style="text-align: center;">Jarum ose</p> 	<p style="text-align: center;">LAF (<i>Laminar air flow</i>)</p> 

Lampiran 11. Proses maserasi









<p style="text-align: center;">Pengambilan daun salam</p> 	<p style="text-align: center;">Pengeringan daun salam</p> 
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<p>Simplisia kering</p> 	<p>Pembuatan serbuk</p> 
<p>Pengayakan</p> 	<p>Penimbangan</p> 
<p>Proses maserasi</p> 	<p>Penyaringan</p> 
<p>Pengemulan ekstrak</p> 	<p>Ekstrak kental</p> 

Lampiran 12. Pengujian kandungan senyawa fitokimia ekstrak daun salam




 <p>Flavonoid (membentuk warna jingga)</p>	 <p>Endapan coklat putih</p> <p>Alkaloid (Pereaksi dragendorff)</p>
 <p>Endapan coklat</p> <p>Alkaloid (Pereaksi bourchadat)</p>	 <p>Endapan kuning keputihan</p> <p>Alkaloid (Pereaksi mayer)</p>
 <p>Terdapat busa</p> <p>Saponin</p>	 <p>Biru kehitaman</p> <p>Tanin</p>

Lampiran 13. Bahan yang digunakan dalam penelitian

 <p>TEA</p>	 <p>Propilenglikol</p>
 <p>Parafin cair</p>	 <p>Propilparaben</p>
 <p>Metil paraben</p>	
 <p>Tween</p>	 <p>Span</p>

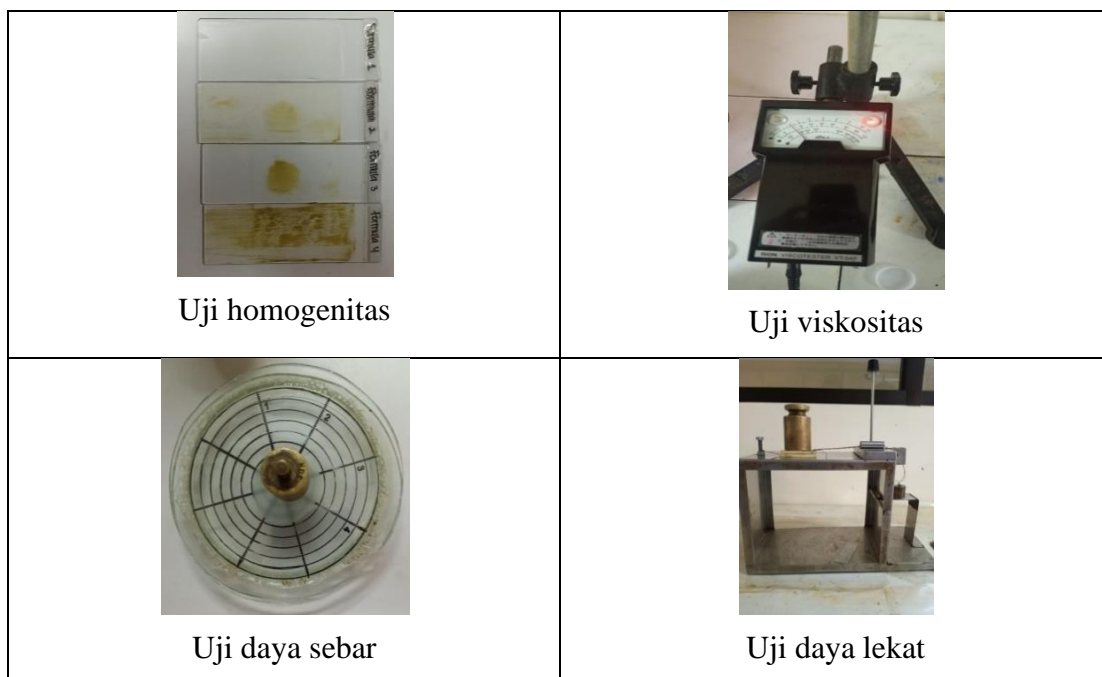
 <p>Aquadest</p>	 <p>Spirtus</p>
 <p>Chloramphenicol</p>	 <p>Media SDA</p>

Lampiran 14. Pembuatan formulasi emulgel ekstrak etanol daun salam

<p>Penimbangan bahan</p> 	<p>Penimbangan ekstrak</p> 
<p>Pemanasan di <i>waterbath</i></p>	<p>Mencampurkan bahan (fase emulsi dan fase gel)</p> 



Lampiran 15. Hasil uji mutu fisik sediaan emulgel ekstrak etanol daun salam



Lampiran 16. Hasil mutu fisik pH emulgel ekstrak etanol daun salam

a. pH

Hari ke-1

FORMULA	F1	F2	F3	F4
Replikasi 1	6,12	6,11	5,94	5,74
Replikasi 2	6,16	6,19	5,87	5,89
Replikasi 3	6,17	6,23	5,79	5,76
Rata-rata ± SD	6,15 ± 0,02	6,18 ± 0,06	5,87 ± 0,08	5,80 ± 0,08

Hari ke-21

FORMULA	F1	F2	F3	F4
Replikasi 1	6,53	6,45	5,7	5,64
Replikasi 2	6,48	6,49	5,83	5,68
Replikasi 3	6,49	6,52	5,85	5,85
Rata-rata ± SD	6,5 ± 0,03	6,49 ± 0,04	5,79 ± 0,08	5,72 ± 0,11

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Hari1	.314	3	.	.893	3	.363
Formula1Hari21	.314	3	.	.893	3	.363
Formulas2Hari1	.253	3	.	.964	3	.637
Formula2Hari21	.204	3	.	.993	3	.843
Formula3Hari1	.184	3	.	.999	3	.927
Formula3Hari21	.340	3	.	.848	3	.235
Formula4Hari1	.340	3	.	.848	3	.235
Formula4Hari21	.318	3	.	.887	3	.344

a. Lilliefors Significance Correction

Paired T-test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Hari1	6.1500	3	.02646	.01528
	Formula1Hari21	6.5000	3	.02646	.01528
Pair 2	Formulas2Hari1	6.1767	3	.06110	.03528
	Formula2Hari21	6.4867	3	.03512	.02028
Pair 3	Formula3Hari1	5.8667	3	.07506	.04333
	Formula3Hari21	5.7933	3	.08145	.04702
Pair 4	Formula4Hari1	5.7967	3	.08145	.04702
	Formula4Hari21	5.7233	3	.11150	.06438

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula1Hari1 & Formula1Hari21	3	-.929	.242
Pair 2	Formulas2Hari1 & Formula2Hari21	3	.994	.069
Pair 3	Formula3Hari1 & Formula3Hari21	3	-.905	.279
Pair 4	Formula4Hari1 & Formula4Hari21	3	-.218	.860

Paired Samples Test									
	Paired Differences					t	df	Sig. (2-tailed)	
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference					
				Lower	Upper				
Pai r 1	Formula1Hari1 - Formula1Hari21	-.35000	.05196	.03000	-.47908	-.22092	-11.667	2	.007
Pai r 2	Formulas2Hari1 - Formula2Hari21	.31000	.02646	.01528	-.37572	-.24428	-20.294	2	.002
Pai r 3	Formula3Hari1 - Formula3Hari21	.333	.15275	.08819	-.30612	.45279	.832	2	.493
Pai r 4	Formula4Hari1 - Formula4Hari21	.333	.15177	.08762	-.30368	.45034	.837	2	.491

Lampiran 17. Hasil mutu fisik viskositas emulgel ekstrak etanol daun salam

Hari ke-1

FORMULA	F1	F2	F3	F4
Replikasi 1	270,00	190,00	160,00	170,00
Replikasi 2	250,00	180,00	170,00	175,00
Replikasi 3	260,00	185,00	168,00	165,00
Rata-rata ± SD	260,00 ± 10,00	185,00 ± 5,00	166,00 ± 5,29	170,00 ± 5,00

Hari ke-21

FORMULA	F1	F2	F3	F4
Replikasi 1	170,00	150,00	100,00	130,00
Replikasi 2	180,00	160,00	120,00	110,00
Replikasi 3	150,00	140,00	130,00	100,00
Rata-rata ± SD	166,67 ± 15,28	150,00 ± 10,00	116,67 ± 15,28	113,33 ± 15,28

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Harike1	.175	3	.	1.000	3	1.000
Formula1Harike21	.253	3	.	.964	3	.637
Formula2Harike1	.175	3	.	1.000	3	1.000
Formula2Harike21	.175	3	.	1.000	3	1.000
Formula3Harike1	.314	3	.	.893	3	.363
Formula3Harike21	.253	3	.	.964	3	.637
Formula4Harike1	.175	3	.	1.000	3	1.000
Formula4Harike21	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Paired T-test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Harike1	260.0000	3	10.00000	5.77350
	FormulaHarike21	166.6667	3	15.27525	8.81917
Pair 2	Formula2Harike1	185.0000	3	5.00000	2.88675
	Formula2Harike21	150.0000	3	10.00000	5.77350
Pair 3	Formula3Harike1	166.0000	3	5.29150	3.05505
	Formula3Harike21	116.6667	3	15.27525	8.81917
Pair 4	Formula4Harike1	170.0000	3	5.00000	2.88675
	Formula4Harike21	113.3333	3	15.27525	8.81917

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula1Harike1 & Formula1Harike21	3	-.327	.788
Pair 2	Formula2Harike1 & Formula2Harike21	3	-.500	.667
Pair 3	Formula3Harike1 & Formula3Harike21	3	.866	.333
Pair 4	Formula4Harike1 & Formula4Harike21	3	.327	.788

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)	
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference					
				Lower	Upper				
Pair 1	Formula1Harike1- Formula1Harike21	93.3 3333	20.81 666	12.01850	41.62 188	145.0 4478	66	7.7 2	.016
Pair 2	Formula2Harike1- Formula2Harike21	35.0 0000	13.22 876	7.63763	2.137 95	67.86 205	83	4.5 2	.044
Pair 3	Formula3Harike1- Formula3Harike21	49.3 3333	11.01 514	6.35959	21.97 021	76.69 646	57	7.7 2	.016
Pair 4	Formula4Harike1- Formula4Harike21	56.6 6667	14.43 376	8.33333	20.81 123	92.52 211	00	6.8 2	.021

Lampiran 18. Hasil mutu fisik daya sebar ekstrak etanol daun salam

Formula	Beban (gram)	Luas daya sebar (cm)±SD	
		Hari ke-1	Hari ke-21
F1	Tanpa Beban	2,99±0,30	3,48±0,29
	50	3,36±0,14	3,73±0,57
	100	3,55±0,18	4,17±0,63
	150	3,91±0,34	4,47±0,78
F2	Tanpa Beban	3,20±0,51	3,56±0,33
	50	3,43±0,53	3,77±0,33
	100	3,76±0,76	4,01±0,3
	150	4,14±0,75	4,33±0,21
F3	Tanpa Beban	3,36±0,32	3,64±0,11
	50	3,52±0,37	3,82±0,13
	100	3,82±0,35	4,04±0,19
	150	4,04±0,37	4,26±0,09
F4	Tanpa Beban	3,35±0,22	3,72±0,18
	50	3,55±0,20	3,86±0,09
	100	3,71±0,18	4,24±0,09
	150	3,92±0,21	4,62±0,10

Hasil statistic tanpa beban

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Hari1TanpaBeban	.367	3	.	.792	3	.096
Formula1Hari21TanpaBeban	.385	3	.	.750	3	.000
Formula2Hari1TanpaBeban	.187	3	.	.998	3	.914
Formula2Hari21TanpaBeban	.203	3	.	.994	3	.848
Formula3Hari1TanpaBeban	.314	3	.	.893	3	.363
Formula3Hari21TanpaBeban	.191	3	.	.997	3	.900
Formula4Hari1TanpaBeban	.298	3	.	.916	3	.439
Formula4Hari21TanpaBeban	.204	3	.	.993	3	.843

a. Lilliefors Significance Correction

Wilcoxon Rank Test

		Ranks		
		N	Mean Rank	Sum of Ranks
Formula1Hari21TanpaBeban	- Negative Ranks	0 ^a	.00	.00
Formula1Hari1TanpaBeban	Positive Ranks	3 ^b	2.00	6.00
	Ties	0 ^c		
	Total	3		
Formula2Hari21TanpaBeban	- Negative Ranks	0 ^d	.00	.00
Formula2Hari1TanpaBeban	Positive Ranks	3 ^e	2.00	6.00
	Ties	0 ^f		
	Total	3		
Formula3Hari21TanpaBeban	- Negative Ranks	0 ^g	.00	.00
Formula3Hari1TanpaBeban	Positive Ranks	3 ^h	2.00	6.00
	Ties	0 ⁱ		
	Total	3		
Formula4Hari21TanpaBeban	- Negative Ranks	0 ^j	.00	.00
Formula4Hari1TanpaBeban	Positive Ranks	3 ^k	2.00	6.00
	Ties	0 ^l		
	Total	3		

a. Formula1Hari21TanpaBeban < Formula1Hari1TanpaBeban

b. Formula1Hari21TanpaBeban > Formula1Hari1TanpaBeban

c. Formula1Hari21TanpaBeban = Formula1Hari1TanpaBeban

d. Formula2Hari21TanpaBeban < Formula2Hari1TanpaBeban

e. Formula2Hari21TanpaBeban > Formula2Hari1TanpaBeban

f. Formula2Hari21TanpaBeban = Formula2Hari1TanpaBeban

g. Formula3Hari21TanpaBeban < Formula3Hari1TanpaBeban

h. Formula3Hari21TanpaBeban > Formula3Hari1TanpaBeban

i. Formula3Hari21TanpaBeban = Formula3Hari1TanpaBeban

j. Formula4Hari21TanpaBeban < Formula4Hari1TanpaBeban

k. Formula4Hari21TanpaBeban > Formula4Hari1TanpaBeban

l. Formula4Hari21TanpaBeban = Formula4Hari1TanpaBeban

Test Statistics^a

	Formula1Hari21 TanpaBeban - Formula1Hari1T anpaBeban	Formula2Hari21 TanpaBeban - Formula2Hari1T anpaBeban	Formula3Hari21 TanpaBeban - Formula3Hari1T anpaBeban	Formula4Hari21 TanpaBeban - Formula4Hari1T anpaBeban
Z	-1.633 ^b	-1.604 ^b	-1.604 ^b	-1.604 ^b
Asymp. Sig. (2-tailed)	.102	.109	.109	.109

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

Hasil statistic beban 50 gram

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Hari1_50gram	.276	3	.	.942	3	.537
Formula1Hari21_50gram	.250	3	.	.967	3	.650
Formula2Hari1_50gram	.244	3	.	.972	3	.678
Formula2Hari21_50gram	.358	3	.	.812	3	.144
Formula3Hari1_50gram	.308	3	.	.902	3	.391
Formula3Hari21_50gram	.219	3	.	.987	3	.780
Formula4Hari1_50gram	.175	3	.	1.000	3	1.000
Formula4Hari21_50gram	.280	3	.	.938	3	.520

a. Lilliefors Significance Correction

Paired T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Hari1_50gram	3.3600	3	.14422	.08327
	Formula1Hari21_50gram	3.7300	3	.56956	.32884
Pair 2	Formula2Hari1_50gram	3.4267	3	.53257	.30748
	Formula2Hari21_50gram	3.7667	3	.33292	.19221
Pair 3	Formula3Hari1_50gram	3.5167	3	.36856	.21279
	Formula3Hari21_50gram	3.8167	3	.12583	.07265
Pair 4	Formula4Hari1_50gram	3.5500	3	.20000	.11547
	Formula4Hari21_50gram	3.8567	3	.09292	.05364

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula1Hari1_50gram & Formula1Hari21_50gram	3	.998	.038
Pair 2	Formula2Hari1_50gram & Formula2Hari21_50gram	3	.815	.393
Pair 3	Formula3Hari1_50gram & Formula3Hari21_50gram	3	.907	.276
Pair 4	Formula4Hari1_50gram & Formula4Hari21_50gram	3	-.269	.827

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1	Formula1Hari1_50gram - Formula1Hari21_50gram	-.37000	.42568	.24576	-1.42744	.68744	1.506	.271
Pair 2	Formula2Hari1_50gram - Formula2Hari21_50gram	-.34000	.32450	.18735	-1.14610	.46610	1.815	.211
Pair 3	Formula3Hari1_50gram - Formula3Hari21_50gram	-.30000	.25981	.15000	-.94540	.34540	2.000	.184
Pair 4	Formula4Hari1_50gram - Formula4Hari21_50gram	-.30667	.24214	.13980	-.90818	.29485	2.194	.160

Hasil statistic beban 100 gram

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Hari1_100gram	.385	3	.	.750	3	.000
Formula1Hari21_100gram	.219	3	.	.987	3	.780
Formula2Hari1_100gram	.230	3	.	.981	3	.737
Formula2Hari21_100gram	.298	3	.	.916	3	.439
Formula3Hari1_100gram	.204	3	.	.993	3	.843
Formula3Hari21_100gram	.181	3	.	.999	3	.942
Formula4Hari1_100gram	.234	3	.	.978	3	.719
Formula4Hari21_100gram	.196	3	.	.996	3	.878

a. Lilliefors Significance Correction

Wilcoxon signed ranks

		Ranks		
		N	Mean Rank	Sum of Ranks
Formula1Hari21_100gram	- Negative Ranks	0 ^a	.00	.00
Formula1Hari1_100gram	Positive Ranks	3 ^b	2.00	6.00
	Ties	0 ^c		
	Total	3		
Formula2Hari21_100gram	- Negative Ranks	1 ^d	2.00	2.00
Formula2Hari1_100gram	Positive Ranks	2 ^e	2.00	4.00
	Ties	0 ^f		
	Total	3		
Formula3Hari21_100gram	- Negative Ranks	0 ^g	.00	.00
Formula3Hari1_100gram	Positive Ranks	3 ^h	2.00	6.00
	Ties	0 ⁱ		
	Total	3		
Formula4Hari21_100gram	- Negative Ranks	0 ^j	.00	.00
Formula4Hari1_100gram	Positive Ranks	3 ^k	2.00	6.00
	Ties	0 ^l		
	Total	3		

a. Formula1Hari21_100gram < Formula1Hari1_100gram

b. Formula1Hari21_100gram > Formula1Hari1_100gram

c. Formula1Hari21_100gram = Formula1Hari1_100gram

d. Formula2Hari21_100gram < Formula2Hari1_100gram

e. Formula2Hari21_100gram > Formula2Hari1_100gram

f. Formula2Hari21_100gram = Formula2Hari1_100gram

g. Formula3Hari21_100gram < Formula3Hari1_100gram

h. Formula3Hari21_100gram > Formula3Hari1_100gram

i. Formula3Hari21_100gram = Formula3Hari1_100gram

j. Formula4Hari21_100gram < Formula4Hari1_100gram

k. Formula4Hari21_100gram > Formula4Hari1_100gram

l. Formula4Hari21_100gram = Formula4Hari1_100gram

Test Statistics^a

	Formula1Hari2 1_100gram - Formula1Hari1 _100gram	Formula2Hari2 1_100gram - Formula2Hari1 _100gram	Formula3Hari2 1_100gram - Formula3Hari1 _100gram	Formula4Hari2 1_100gram - Formula4Hari1 _100gram
Z	-1.604 ^b	-.535 ^b	-1.604 ^b	-1.604 ^b
Asymp. Sig. (2-tailed)	.109	.593	.109	.109

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

Hasil statistic beban 150 gram

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Hari1_150gram	.241	3	.	.974	3	.690
Formula1Hari21_150gram	.176	3	.	1.000	3	.986
Formula2Hari1_150gram	.290	3	.	.926	3	.474
Formula2Hari21_150gram	.217	3	.	.988	3	.791
Formula3Hari1_150gram	.280	3	.	.938	3	.520
Formula3Hari21_150gram	.213	3	.	.990	3	.806
Formula4Hari1_150gram	.292	3	.	.923	3	.463
Formula4Hari21_150gram	.245	3	.	.971	3	.672

a. Lilliefors Significance Correction

Paired T-Test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Hari1_150gram	3.9133	3	.33946	.19599
	Formula1Hari21_150gram	4.4733	3	.78002	.45035
Pair 2	Formula2Hari1_150gram	4.1433	3	.75341	.43498
	Formula2Hari21_150gram	4.3267	3	.21127	.12197
Pair 3	Formula3Hari1_150gram	4.0433	3	.37166	.21458
	Formula3Hari21_150gram	4.2600	3	.08544	.04933
Pair 4	Formula4Hari1_150gram	3.9167	3	.20817	.12019
	Formula4Hari21_150gram	4.6200	3	.10149	.05859

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula1Hari1_150gram & Formula1Hari21_150gram	3	.986	.108
Pair 2	Formula2Hari1_150gram & Formula2Hari21_150gram	3	.927	.245
Pair 3	Formula3Hari1_150gram & Formula3Hari21_150gram	3	.938	.225
Pair 4	Formula4Hari1_150gram & Formula4Hari21_150gram	3	-.899	.288

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula1Hari1_150gram - Formula1Hari21_150gram	-.56000	.44911	.25929	1.67565	-.55565	2.160	2	.163
Pair 2 Formula2Hari1_150gram - Formula2Hari21_150gram	-.18333	.56323	.32518	1.58249	1.21582	-.564	2	.630
Pair 3 Formula3Hari1_150gram - Formula3Hari21_150gram	-.21667	.29297	.16915	-.94445	.51112	1.281	2	.329
Pair 4 Formula4Hari1_150gram - Formula4Hari21_150gram	-.70333	.30271	.17477	1.45531	.04864	4.024	2	.057

Lampiran 19. Hasil mutu fisik daya lekat ekstrak etanol daun salam

Daya Lekat (detik)		
Formula	Hari ke-1	Hari ke-21
F1	1,71±0,03	1,43±0,06
F2	1,51±0,02	1,20±0,06
F3	1,45±0,11	1,45±0,11
F4	1,51±0,01	1,45±0,02

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Hari1	.253	3	.	.964	3	.637
Formula1Hari21	.191	3	.	.997	3	.900
Formula2Hari1	.253	3	.	.964	3	.637
Formula2Hari21	.282	3	.	.936	3	.510
Formula3Hari1	.260	3	.	.958	3	.605
Formula3Hari21	.292	3	.	.923	3	.463
Formula4Hari1	.175	3	.	1.000	3	1.000
Formula4Hari21	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

Paired T-test

Paired Samples Statistics					
		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Hari1	1.7133	3	.03055	.01764
	Formula1Hari21	1.4333	3	.05508	.03180
Pair 2	Formula2Hari1	1.5067	3	.01528	.00882
	Formula2Hari21	1.2033	3	.05686	.03283
Pair 3	Formula3Hari1	1.4533	3	.11240	.06489
	Formula3Hari21	1.4533	3	.02082	.01202
Pair 4	Formula4Hari1	1.5100	3	.01000	.00577
	Formula4Hari21	1.4833	3	.02082	.01202

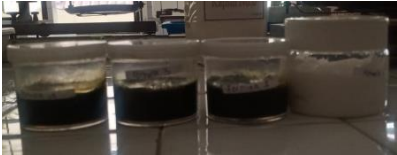




Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula1Hari1 & Formula1Hari21	3	.376	.754
Pair 2	Formula2Hari1 & Formula2Hari21	3	-.556	.624
Pair 3	Formula3Hari1 & Formula3Hari21	3	.036	.977
Pair 4	Formula4Hari1 & Formula4Hari21	3	.961	.179

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula1Hari1 - Formula1Hari21	.28000	.05196	.03000	.15092	.40908	9.333	2	.011
Pair 2 Formula2Hari1 - Formula2Hari21	.30333	.06658	.03844	.13793	.46874	7.891	2	.016
Pair 3 Formula3Hari1 - Formula3Hari21	.00000	.11358	.06557	-.28214	.28214	.000	2	1.000
Pair 4 Formula4Hari1 - Formula4Hari21	.02667	.01155	.00667	-.00202	.05535	4.000	2	.057

Lampiran 20. Hasil stabilitas formula

<p>Sediaan setelah stabilitas</p> 	<p>Uji pH</p> 	<p>Uji viskositas</p> 
<p>Uji daya lekat</p> 	<p>Uji daya sebar</p> 	

Lampiran 21. Hasil stabilitas pH

Replikasi	Sebelum				Sesudah			
	Formula 1	Formula 2	Formula 3	Formula 4	Formula 1	Formula 2	Formula 3	Formula 4
1	6,08	6,31	5,78	5,64	6,43	6,45	5,95	5,62
2	6,18	6,39	5,7	5,59	6,38	6,49	5,83	5,56
3	6,17	6,41	5,75	5,56	6,39	6,52	5,87	5,66
Rata-rata±SD	6,14±0,06	6,37±0,05	5,74±0,04	5,60±0,04	6,40±0,03	6,49±0,04	5,88±0,06	5,61±0,05

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Sebelum	.353	3	.	.824	3	.174
Formula1Setelah	.314	3	.	.893	3	.363
Formula2Sebelum	.314	3	.	.893	3	.363
Formula2Setelah	.204	3	.	.993	3	.843
Formula3Sebelum	.232	3	.	.980	3	.726
Formula3Setelah	.253	3	.	.964	3	.637
Formula4Sebelum	.232	3	.	.980	3	.726
Formula4Setelah	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

Paired T-test

Paired Samples Statistics					
		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Sebelum	6.1433	3	.05508	.03180
	Formula1Setelah	6.4000	3	.02646	.01528
Pair 2	Formula2Sebelum	6.3700	3	.05292	.03055
	Formula2Setelah	6.4867	3	.03512	.02028
Pair 3	Formula3Sebelum	5.7433	3	.04041	.02333
	Formula3Setelah	5.8833	3	.06110	.03528
Pair 4	Formula4Sebelum	5.5967	3	.04041	.02333
	Formula4Setelah	5.6133	3	.05033	.02906

Paired Samples Correlations

		N	Correlation	Sig.
Pair 1	Formula1Sebelum & Formula1Setelah	3	-.995	.063
Pair 2	Formula2Sebelum & Formula2Setelah	3	.969	.160
Pair 3	Formula3Sebelum & Formula3Setelah	3	.945	.212
Pair 4	Formula4Sebelum & Formula4Setelah	3	-.262	.831

Paired Samples Test

	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula1Sebelum - Formula1Setelah	-.25667	.08145	.04702	-.45899	-.05435	-5.458	2	.032
Pair 2 Formula2Sebelum - Formula2Setelah	-.11667	.02082	.01202	-.16838	-.06496	-9.707	2	.010
Pair 3 Formula3Sebelum - Formula3Setelah	-.14000	.02646	.01528	-.20572	-.07428	-9.165	2	.012
Pair 4 Formula4Sebelum - Formula4Setelah	-.01667	.07234	.04177	-.19637	-.16304	-.399	2	.728

Lampiran 22. Hasil stabilitas viskositas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Formula1Sebelum	.253	3	.	.964	3	.637
Formula1Setelah	.175	3	.	1.000	3	1.000
Formula2Sebelum	.175	3	.	1.000	3	1.000
Formula2Setelah	.253	3	.	.964	3	.637
Formula3Sebelum	.175	3	.	1.000	3	1.000
Formula3Setelah	.253	3	.	.964	3	.637
Formula4Sebelum	.253	3	.	.964	3	.637
Formula4Setelah	.238	3	.	.976	3	.702

a. Lilliefors Significance Correction

Paired T-test

Paired Samples Statistics

		Mean	N	Std. Deviation	Std. Error Mean
Pair 1	Formula1Sebelum	236.6667	3	15.27525	8.81917
	Formula1Setelah	200.0000	3	10.00000	5.77350
Pair 2	Formula2Sebelum	210.0000	3	10.00000	5.77350
	Formula2Setelah	188.3333	3	7.63763	4.40959
Pair 3	Formula3Sebelum	180.0000	3	5.00000	2.88675
	Formula3Setelah	168.3333	3	7.63763	4.40959
Pair 4	Formula4Sebelum	178.3333	3	7.63763	4.40959
	Formula4Setelah	169.0000	3	5.56776	3.21455

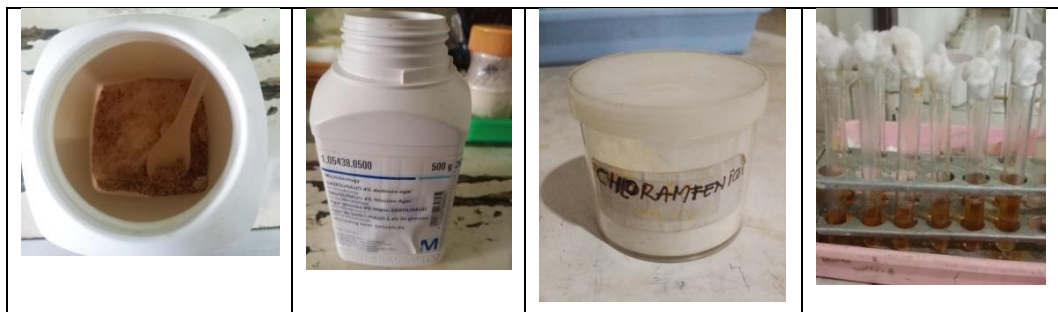
Paired Samples Correlations

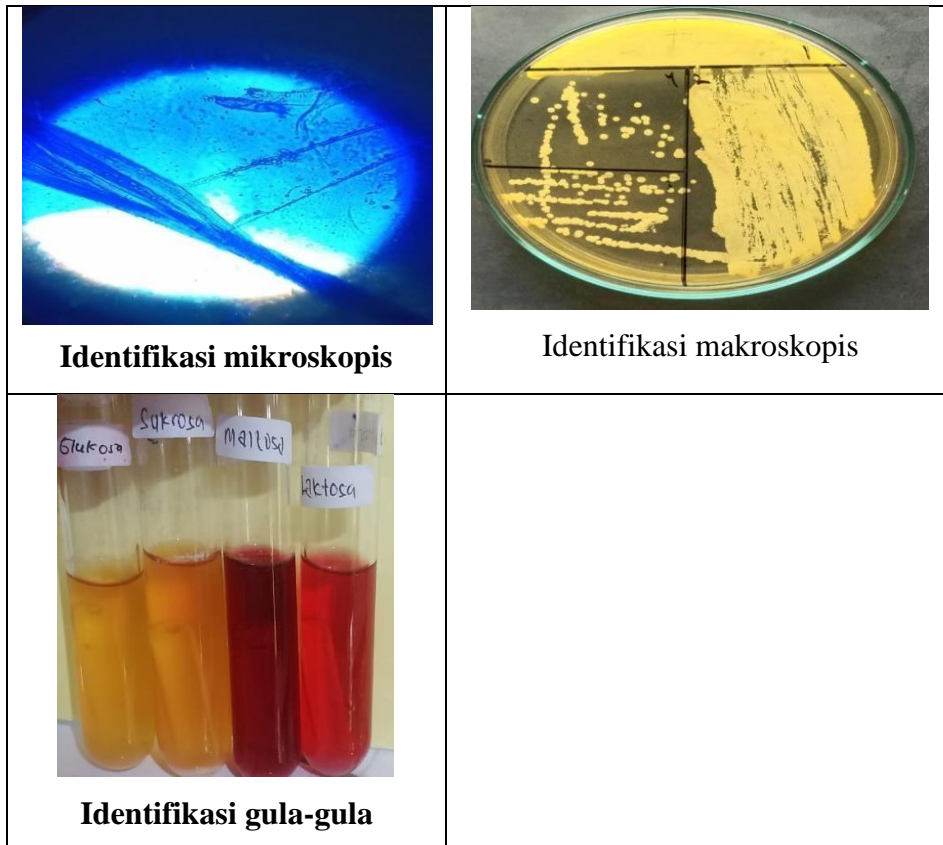
		N	Correlation	Sig.
Pair 1	Formula1Sebelum & Formula1Setelah	3	-.327	.788
	Formula2Sebelum & Formula2Setelah	3	.327	.788
Pair 3	Formula3Sebelum & Formula3Setelah	3	.327	.788
	Pair 4	Formula4Sebelum & Formula4Setelah	3	-.529

Paired Samples Test

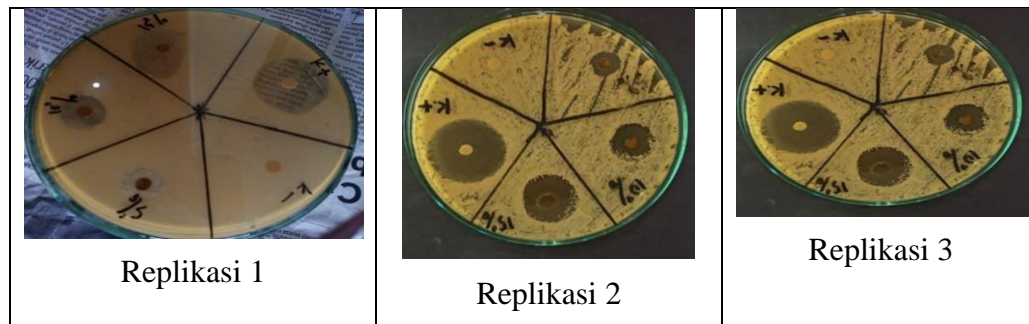
	Paired Differences					t	df	Sig. (2-tailed)
	Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
				Lower	Upper			
Pair 1 Formula1Sebelum - Formula1Setelah	36.66667	20.81666	12.01850	-15.04478	88.37812	3.051	2	.093
Pair 2 Formula2Sebelum - Formula2Setelah	21.66667	10.40833	6.00925	-4.18906	47.52239	3.606	2	.069
Pair 3 Formula3Sebelum - Formula3Setelah	11.66667	7.63763	4.40959	-7.30625	30.63958	2.646	2	.118
Pair 4 Formula4Sebelum - Formula4Setelah	9.33333	11.59023	6.69162	-19.45838	38.12505	1.395	2	.298

Lampiran 23. Pembuatan media



Lampiran 24. Hasil identifikasi Jamur *Candida albicans* ATCC 10231**Lampiran 25. Hasil pembuatan suspensi**

Lampiran 26. Hasil uji daya hambat



Daya Hambat					
Replikasi	K (+)	Formula			
		1	Formula 2	Formula 3	Formula 4
1	26,75	0	8,75	16,00	19,25
2	26,00	0	7,00	11,25	14,50
3	28,75	0	16,50	17,50	18,00
Rata- Rata±SD	27,17 ±1,42	0±0	10,75 ±5,06	14,92 ±3,26	17,25 ±2,46

Tests of Normality ^b							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
DayaHambat	Kontrol Positif	.282	3	.	.936	3	.510
	Formula 2	.320	3	.	.883	3	.332
	Formula 3	.297	3	.	.917	3	.443
	Formula 4	.286	3	.	.930	3	.490

a. Lilliefors Significance Correction

b. DayaHambat is constant when Formula = Formula 1. It has been omitted.

Homogeneity

Test of Homogeneity of Variances

DayaHambat

Levene Statistic	df1	df2	Sig.
4.757	4	10	.021

ANOVA

DayaHambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1173.975	4	293.494	33.132	.000
Within Groups	88.583	10	8.858		
Total	1262.558	14			

Post hoc (dunnett T3)**Multiple Comparisons**

Dependent Variable: DayaHambat

Dunnett T3

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Positif	Formula 1	27.16667*	.82074	.003	20.1307	34.2026
	Formula 2	16.41667	3.03223	.095	-5.7266	38.5599
	Formula 3	12.25000	2.05480	.057	-.6186	25.1186
	Formula 4	9.91667*	1.64148	.039	.8171	19.0162
Formula 1	Kontrol Positif	-27.16667*	.82074	.003	-34.2026	-20.1307
	Formula 2	-10.75000	2.91905	.236	-35.7742	14.2742
	Formula 3	-14.91667	1.88378	.058	-31.0658	1.2324
	Formula 4	-17.25000*	1.42156	.025	-29.4367	-5.0633
Formula 2	Kontrol Positif	-16.41667	3.03223	.095	-38.5599	5.7266
	Formula 1	10.75000	2.91905	.236	-14.2742	35.7742
	Formula 3	-4.16667	3.47411	.875	-22.5710	14.2377
	Formula 4	-6.50000	3.24679	.533	-25.8835	12.8835
Formula 3	Kontrol Positif	-12.25000	2.05480	.057	-25.1186	.6186
	Formula 1	14.91667	1.88378	.058	-1.2324	31.0658
	Formula 2	4.16667	3.47411	.875	-14.2377	22.5710
	Formula 4	-2.33333	2.35997	.946	-14.1890	9.5224
Formula 4	Kontrol Positif	-9.91667*	1.64148	.039	-19.0162	-.8171
	Formula 1	17.25000*	1.42156	.025	5.0633	29.4367
	Formula 2	6.50000	3.24679	.533	-12.8835	25.8835
	Formula 3	2.33333	2.35997	.946	-9.5224	14.1890

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

Lampiran 27. Sertifikat jamur *Candida albicans* ATCC 10231

PRO – Technology
 Laboratorium Uji Mikrobiologi
 Jalan Cempaka Putih No.69 - Jakarta Pusat
 Indonesia

SERTIFIKAT HASIL UJI

1. Bakteri : Stock Strain Murni *Candida albicans* ATCC 10231
2. Nomor Uji Bakteri : V. 0. 1.
3. Tanggal Uji bakteri : 2 – 7 November 2020

Uraian Hasil Uji

V. 0. 1. Biakan Murni *Candida albicans* ATCC 10231

- I. Ciri-ciri koloni :
 1. Pewarnaan Gram : Sel bulat, kecil-kecil, tersusun menyebar, berwarna ungu, termasuk Gram positif.
 2. Di tanam pada media Sabaraud Dektroso Agar : Koloni bulat kecil, berwarna putih kekuningan, permukaan koloni cembung, dan bau khas seperti ragi.
 3. Di tanam pada Serum Kelinci, diinkubasi 4-8 jam, di amati dengan cat Laktofenol Cotton Blue : Sel bulat dengan tonjolan kecil - kecil (adanya Blastospora)
- II. Uji Fermentasi Karbohidrat dan Biokimia Penegasan

Uji Fermentasi Karbohidrat			Uji Fisiologis	
Glukosa	Asam (+)	Gas (+)	Katalase	(+) timbul gelembung gas
Laktosa	Asam (+)	Gas (+)	Koagulase (serum)	(+) serum menggumpal
Maltosa	Asam (+)	Gas (+)	Oxidase	(-)
Sukrosa	Asam (+)	Gas (+)	Manitol	(+)

Catatan:

1. Hasil Uji ini hanya berlaku untuk contoh yang diuji.

