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Lampiran 1. Perhitungan rendemen ekstrak

$$\text{Rendemen ekstrak (\%)} = \frac{\text{Berat ekstrak yang diperoleh}}{\text{Berat Sampel}} \times 100 \%$$

$$\text{Rendemen ekstrak 1} = \frac{58 \text{ gram}}{500 \text{ gram}} \times 100 \% = 11,6 \%$$

$$\text{Rendemen ekstrak 2} (= \frac{56 \text{ gram}}{500 \text{ gram}} \times 100 \% = 11,2 \%$$

Lampiran 2. Perhitungan konsentrasi ekstrak belimbing wuluh untuk orientasi 1

$$\begin{aligned}
 25 \% &= 25 \text{ gram} / 100 \text{ ml} \\
 &= 25 / 100 \\
 &= 0,25 \text{ gram} / \text{ml} \\
 &= 0,5 \text{ gram} / 2 \text{ ml} \\
 12,5 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 25 \% = 2 \times 12,5 \% \\
 &V_1 \times 25 \% = 25 \% \\
 &V_1 = 1 \text{ ml} \\
 10 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 12,5 \% = 2 \times 10 \% \\
 &V_1 \times 12,5 \% = 20 \% \\
 &V_1 = 1,6 \text{ ml} \\
 8 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 10 \% = 2 \times 8 \% \\
 &V_1 \times 10 \% = 16 \% \\
 &V_1 = 1,6 \text{ ml} \\
 7,5 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 8 \% = 2 \times 7,5 \% \\
 &V_1 \times 8 \% = 15 \% \\
 &V_1 = 1,8 \text{ ml} \\
 5 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 7,5 \% = 2 \times 5 \% \\
 &V_1 \times 7,5 \% = 10 \% \\
 &V_1 = 1,3 \text{ ml} \\
 2,5 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 5 \% = 2 \times 2,5 \% \\
 &V_1 \times 5 \% = 5 \% \\
 &V_1 = 1 \text{ ml}
 \end{aligned}$$

Lampiran 3. Perhitungan konsentrasi ekstrak belimbing wuluh untuk orientasi 2

$$\begin{aligned}
 30 \% &= 30 \text{ gram} / 100 \text{ ml} \\
 &= 30 / 100 \\
 &= 0,3 \text{ gram} / \text{ml} \\
 &= 0,6 \text{ gram} / 2 \text{ ml} \\
 25 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 30 \% = 2 \times 25 \% \\
 &V_1 \times 30 \% = 50 \% \\
 &V_1 = 1,6 \text{ ml} \\
 20 \% \rightarrow &V_1 \times C_1 = V_2 \times C_2 \\
 &V_1 \times 25 \% = 2 \times 20 \% \\
 &V_1 \times 25 \% = 40 \% \\
 &V_1 = 1,6 \text{ ml}
 \end{aligned}$$

Lampiran 4. Data hasil kadar air serbuk simplisia belimbing wuluh

Replikasi	Volume (ml)	Kadar air (%)
1	0,6	3
2	1,1	5,5
3	1,4	7
Rata – rata		5,16

Lampiran 5. Data hasil uji aktivitas antibakteri ekstrak orientasi 1

HASIL UJI AKTIVITAS ANTIBAKTERI EKSTRAK					
Konsentrasi ekstrak (%)	D1	D2	D3	Rata - rata	SD
2,5	7	8	7	7,33	0,577
5	9	9	8	8,67	0,577
7,5	11	10	10	10,33	0,577
8	12	13	12	12,33	0,577
10	14	15	16	15,00	1
12,5	15	18	15	16,00	1,732
25	22	23	22	22,33	0,577
Kontrol +	26	26	25	25,67	0,577
Kontrol -	-	-	-	-	-

Lampiran 6. Data hasil uji aktivitas antibakteri ekstrak orientasi 2

HASIL UJI AKTIVITAS ANTIBAKTERI EKSTRAK					
Konsentrasi ekstrak (%)	D1	D2	D3	Rata - rata	SD
20	23	21	21	21,67	22
25	24	22	23	23,00	23
30	25	25	24	24,67	25
Kontrol +	26	26	27	26,33	26
Kontrol -					

Lampiran 7. Data hasil uji pH sebelum penyimpanan

pH					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata - rata	SD
FI	5,90	5,85	5,88	5,87	0,025
FII	6,02	6,11	6,15	6,10	0,066
FIII	6,22	6,26	6,21	6,24	0,026
FIV	6,24	6,27	6,30	6,27	0,03
FV	6,31	6,30	6,35	6,32	0,026
FVI	6,35	6,38	6,27	6,35	0,056

Lampiran 8. Data hasil uji pH sesudah penyimpanan

pH						
Siklus	Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata - rata	SD
Siklus 1	FI	5,50	5,77	5,89	5,73	0,199
	FII	6,12	6,22	6,25	6,20	0,068
	FIII	6,25	6,27	6,33	6,28	0,041
	FIV	6,24	6,26	6,23	6,25	0,015
	FV	6,29	6,27	6,23	6,27	0,030
	FVI	6,30	6,35	6,31	6,33	0,026
Siklus 2	FI	5,69	5,72	5,68	5,70	0,020
	FII	6,20	6,19	6,16	6,19	0,020
	FIII	6,25	6,28	6,21	6,26	0,035
	FIV	6,20	6,22	6,18	6,21	0,02
	FV	6,25	6,28	6,21	6,26	0,035
	FVI	6,31	6,26	6,29	6,28	0,025
Siklus 3	FI	5,52	5,63	5,60	5,60	0,056
	FII	6,18	6,20	6,11	6,17	0,047
	FIII	6,24	6,27	6,25	6,26	0,015
	FIV	6,16	6,19	6,17	6,18	0,015
	FV	6,23	6,18	6,24	6,21	0,032
	FVI	6,25	6,32	6,28	6,29	0,035
Siklus 4	FI	5,55	5,64	5,59	5,61	0,045
	FII	6,12	6,23	6,21	6,20	0,058
	FIII	6,25	6,22	6,26	6,24	0,020
	FIV	6,18	6,21	6,14	6,19	0,035
	FV	6,31	6,25	6,27	6,27	0,030
	FVI	6,28	6,38	6,34	6,35	0,050
Siklus 5	FI	5,48	5,53	5,46	5,50	0,036
	FII	6,22	6,10	6,15	6,14	0,060
	FIII	6,22	6,22	6,23	6,22	0,005
	FIV	6,13	6,15	6,20	6,16	0,036
	FV	6,19	6,23	6,26	6,23	0,035
	FVI	6,23	6,27	6,33	6,28	0,050
Siklus 6	FI	5,57	5,44	5,37	5,46	0,101
	FII	6,06	6,13	6,19	6,13	0,065
	FIII	6,26	6,32	6,21	6,28	0,055
	FIV	6,10	6,19	6,16	6,16	0,045
	FV	6,24	6,15	6,22	6,19	0,047
	FVI	6,36	6,28	6,30	6,31	0,041

Lampiran 9. Data hasil uji daya sebar sebelum penyimpanan

DAYA SEBAR (cm)						
Formula	Beban	Replikasi 1	Replikasi 2	Replikasi 3	Rata - rata	SD
FI	50 gr	7,3	6,9	7,4	7,2	0,264
	100 gr	9,0	9,0	9,3	9,1	0,173
FII	50 gr	6,4	6,4	5,3	6,0	0,635
	100 gr	9,1	7,9	7,8	8,3	0,723
FIII	50 gr	5,1	6,2	5,3	5,5	0,585
	100 gr	7,0	8,2	8,0	7,7	0,642
FIV	50 gr	5,6	5,6	7,2	6,1	0,923
	100 gr	8,1	7,9	8,5	8,2	0,305
FV	50 gr	5,6	5,1	5,5	5,4	0,264
	100 gr	7,4	7,7	6,8	7,3	0,458
FVI	50 gr	5,8	5,5	4,1	5,1	0,907
	100 gr	6,8	7,4	6,2	6,8	0,6

Lampiran 10. Data hasil uji daya sebar sesudah penyimpanan

DAYA SEBAR (cm)							
Siklus	Formula	Beban	Replikasi 1	Replikasi 2	Replikasi 3	Rata- rata	SD
Siklus 1	FI	50 gr	6,6	7,5	7,8	7,3	0,624
		100 gr	9,8	8,8	9,3	9,3	0,500
	FII	50 gr	6,7	7,2	5,7	6,5	0,763
		100 gr	8,2	8,3	9,4	8,6	0,665
	FIII	50 gr	5,6	6,2	6,7	6,2	0,550
		100 gr	8,9	8,1	7,9	8,3	0,529
	FIV	50 gr	6,3	7,0	6,9	6,7	0,378
		100 gr	8,5	9,2	8,5	8,7	0,404
	FV	50 gr	7,1	4,6	6,1	5,9	1,258
		100 gr	8,8	7,1	7,9	7,9	0,850
	FVI	50 gr	5,3	5,1	5,4	5,3	0,152
		100 gr	7,7	7,2	6,8	7,2	0,450
Siklus 2	FI	50 gr	7,2	7,6	7,3	7,4	0,208
		100 gr	10,3	10,7	8,5	9,8	1,171
	FII	50 gr	7,3	7,0	6,1	6,8	0,624
		100 gr	8,4	9,0	9,0	8,8	0,346
	FIII	50 gr	6,1	6,5	5,3	6,0	0,611
		100 gr	8,6	8,0	8,4	8,3	0,305
	FIV	50 gr	5,9	7,0	6,5	6,5	0,550
		100 gr	8,1	8,1	9,1	8,4	0,577
	FV	50 gr	5,7	6,6	5,5	5,9	0,585
		100 gr	7,1	8,1	8,3	7,8	0,642
	FVI	50 gr	5,8	4,8	5,9	5,5	0,608
		100 gr	7,2	7,3	7,3	7,3	0,057
Siklus 3	FI	50 gr	8,1	6,8	7,5	7,5	0,650
		100 gr	10,4	10,5	8,9	9,9	0,896
	FII	50 gr	7,9	6,1	5,5	6,5	1,249
		100 gr	9,1	9,4	7,7	8,7	0,907
	FIII	50 gr	6,1	5,8	5,9	5,9	0,152
		100 gr	8,7	8,0	7,7	8,1	0,513
	FIV	50 gr	6,4	5,8	7,5	6,6	0,862
		100 gr	7,8	7,7	9,1	8,2	0,781
	FV	50 gr	6,2	5,5	5,4	5,7	0,435
		100 gr	8,2	7,1	7,5	7,6	0,556
	FVI	50 gr	4,7	5,6	5,3	5,2	0,458
		100 gr	6,3	7,3	8,2	7,3	0,950
Siklus 4	FI	50 gr	6,2	9,0	6,7	7,3	1,493

	FII	100 gr	9,4	10,3	9,3	9,7	0,550
		50 gr	6,8	6,0	7,2	6,7	0,611
	FIII	100 gr	8,8	8,8	7,9	8,5	0,519
		50 gr	5,4	6,6	6,0	6,0	0,6
	FIV	100 gr	8,2	8,4	7,2	7,9	0,642
		50 gr	7,0	6,5	5,5	6,3	0,763
	FV	100 gr	10,2	8,0	7,5	8,6	1,436
		50 gr	5,9	6,7	5,2	5,9	0,750
	FVI	100 gr	7,8	8,9	7,4	8,0	0,776
		50 gr	5,4	5,0	6,2	5,5	0,611
		100 gr	7,3	6,5	7,3	7,0	0,461
		50 gr	8,1	7,5	6,1	7,2	1,026
Siklus 5	FI	100 gr	9,6	9,6	9,5	9,6	0,057
		50 gr	6,1	6,4	7,0	6,5	0,458
	FII	100 gr	8,8	8,9	8,3	8,7	0,321
		50 gr	6,5	6,1	5,1	5,9	0,721
	FIII	100 gr	8,1	8,1	7,4	7,9	0,404
		50 gr	6,4	6,0	6,3	6,2	0,208
	FIV	100 gr	7,9	8,4	9,5	8,6	0,818
		50 gr	6,1	6,3	5,3	5,9	0,529
	FV	100 gr	7,8	8,3	7,5	7,9	0,404
		50 gr	5,1	5,3	6,5	5,6	0,757
FVI	100 gr	6,6	7,5	7,6	7,2	0,550	
	50 gr	7,7	7,0	8,1	7,6	0,556	
Siklus 6	FI	100 gr	9,1	9,4	10,0	9,5	0,458
		50 gr	6,7	7,1	7,1	7,0	0,230
	FII	100 gr	8,1	9,1	8,6	8,6	0,5
		50 gr	5,5	6,1	7,2	6,3	0,862
	FIII	100 gr	7,0	7,5	8,7	7,7	0,873
		50 gr	7,1	6,2	6,0	6,4	0,585
	FIV	100 gr	9,2	8,6	8,4	8,7	0,416
		50 gr	6,5	6,0	5,8	6,1	0,360
	FV	100 gr	8,5	8,0	8,6	8,4	0,321
		50 gr	6,0	5,8	5,1	5,6	0,472
FVI	100 gr	8,2	7,6	6,5	7,4	0,862	

Lampiran 11. Data hasil uji daya lekat sebelum penyimpanan

DAYA LEKAT (detik)					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata	SD
FI	5,20	7,01	4,55	5,59	1,274
FII	9,56	8,50	6,48	8,18	1,564
FIII	11,33	12,25	9,41	11,00	1,449
FIV	7,44	8,43	6,50	7,46	0,965
FV	9,45	11,48	10,44	10,46	1,015
FVI	11,53	13,51	12,52	12,52	0,99

Lampiran 12. Data hasil uji daya lekat sesudah penyimpanan

DAYA LEKAT (detik)						
Siklus	Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata	SD
Siklus 1	FI	5,45	4,37	6,32	5,38	0,976
	FII	6,21	7,32	5,51	6,35	0,912
	FIII	8,49	6,41	7,10	7,33	1,059
	FIV	8,31	6,53	9,57	8,14	1,527
	FV	7,55	8,50	5,54	7,20	1,511
	FVI	10,35	9,41	8,45	9,40	0,950
Siklus 2	FI	4,33	4,21	4,55	4,36	0,172
	FII	6,21	7,33	5,52	6,35	0,913
	FIII	8,46	6,52	7,27	7,42	0,978
	FIV	7,33	6,43	5,49	6,42	0,920
	FV	8,47	6,51	8,48	7,82	1,134
	FVI	11,12	9,10	10,34	10,19	1,018
Siklus 3	FI	4,16	5,32	4,37	4,62	0,618
	FII	7,12	8,23	5,45	6,93	1,399
	FIII	10,19	7,56	8,40	8,72	1,343
	FIV	6,38	8,44	7,46	7,43	1,030
	FV	11,27	9,33	6,46	9,02	2,419
	FVI	10,55	10,37	9,42	10,11	0,607
Siklus 4	FI	5,58	4,32	4,39	4,76	0,708
	FII	9,20	6,22	7,30	7,57	1,508
	FIII	10,58	9,29	8,37	9,41	1,110
	FIV	8,50	5,52	7,54	7,19	1,521
	FV	10,11	8,29	9,45	9,28	0,921
	FVI	9,45	10,28	9,49	9,74	0,468
Siklus 5	FI	4,50	4,42	4,29	4,40	0,105
	FII	6,29	7,28	5,11	6,23	1,086
	FIII	9,32	8,49	7,34	8,38	0,994
	FIV	7,47	6,48	5,45	6,47	1,010
	FV	9,57	8,55	6,10	8,07	1,783
	FVI	7,44	9,43	9,20	8,69	1,088
Siklus 6	FI	4,52	4,39	4,18	4,36	0,171
	FII	6,22	5,58	4,44	5,41	0,901
	FIII	9,10	7,44	6,34	7,63	1,389
	FIV	7,39	8,44	6,40	7,41	1,020
	FV	7,55	9,38	8,53	8,49	0,915
	FVI	11,56	10,43	8,23	10,07	1,693

Lampiran 13. Data hasil uji waktu mengering sebelum penyimpanan

WAKTU MENGERING (menit)					
Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata	SD
FI	18,27	16,31	19,28	17,95	1,510
FII	20,19	23,24	19,26	20,90	2,081
FIII	32,36	25,41	22,39	26,72	5,112
FIV	24,31	22,35	26,40	24,35	2,025
FV	28,22	26,40	29,34	27,99	1,483
FVI	34,50	37,41	31,55	34,49	2,930

Lampiran 14. Data hasil uji waktu mengering sesudah penyimpanan

WAKTU MENGERING (menit)						
Siklus	Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata	SD
Siklus 1	FI	16,32	18,40	14,21	16,31	2,095
	FII	19,19	21,36	25,14	21,90	3,011
	FIII	34,46	23,31	26,35	28,04	5,763
	FIV	23,23	22,30	24,33	23,29	1,016
	FV	26,47	27,44	25,52	26,48	0,960
	FVI	30,35	33,40	28,42	30,72	2,510
Siklus 2	FI	17,35	18,24	18,47	18,02	0,591
	FII	22,53	21,17	20,44	21,38	1,060
	FIII	24,53	23,38	27,10	25,00	1,904
	FIV	25,39	23,42	22,44	23,75	1,502
	FV	26,48	28,57	24,58	26,54	1,995
	FVI	28,58	32,52	25,57	28,89	3,485
Siklus 3	FI	19,20	17,43	20,19	18,94	1,398
	FII	21,57	24,10	22,15	22,61	1,325
	FIII	25,51	23,27	26,18	24,99	1,523
	FIV	20,22	21,30	24,25	21,92	2,086
	FV	26,17	25,20	28,18	26,52	1,519
	FVI	28,33	27,35	33,37	29,68	3,230
Siklus 4	FI	17,29	18,39	15,26	16,98	1,587
	FII	22,38	20,45	24,12	22,32	1,835
	FIII	22,35	28,10	25,32	25,26	2,875
	FIV	22,27	18,31	23,28	21,29	2,626
	FV	29,19	26,24	24,26	26,56	2,480
	FVI	26,41	34,36	32,39	31,05	4,140
Siklus 5	FI	16,50	18,29	17,38	17,39	0,895
	FII	23,26	22,45	20,37	22,03	1,490
	FIII	24,36	22,49	26,56	24,47	2,037
	FIV	19,27	21,38	20,43	20,36	1,056
	FV	25,36	27,46	28,33	27,05	1,526
	FVI	30,43	31,11	27,56	29,70	1,884
Siklus 6	FI	20,30	17,18	16,31	17,93	2,098
	FII	23,54	23,11	21,28	22,64	1,200
	FIII	26,36	24,27	25,30	25,31	1,045
	FIV	23,32	20,33	21,46	21,70	1,509
	FV	24,48	26,42	25,53	25,48	0,971
	FVI	26,24	32,28	29,32	29,28	3,020

Lampiran 15. Data hasil uji viskositas sebelum penyimpanan

VISKOSITAS (dpas)					
Formul a	Replikas i 1	Replikas i 2	Replikas i 3	Rata - rata	SD
FI	190	180	200	190	10
FII	260	290	250	266,7	20,8
FIII	510	500	520	510	10
FIV	310	300	350	320	26,5
FV	500	550	500	516,7	28,9
FVI	850	800	810	820	26,5

Lampiran 16. Data hasil uji viskositas sesudah penyimpanan

VISKOSITAS (dpas)						
Siklus	Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata - rata	SD
Siklus 1	FI	210	200	250	220	26,5
	FII	250	310	300	286,7	32,1
	FIII	450	410	490	450	40,0
	FIV	300	310	290	300	10,0
	FV	650	610	650	636,7	23,1
	FVI	800	750	800	783,3	28,9
Siklus 2	FI	250	200	200	216,7	28,9
	FII	260	300	250	270	26,5
	FIII	410	450	440	433,3	20,8
	FIV	310	300	350	320	26,5
	FV	500	510	550	520	26,5
	FVI	810	790	800	800	10,0
Siklus 3	FI	210	240	200	216,7	20,8
	FII	300	250	290	280	26,5
	FIII	450	480	450	460	17,3
	FIV	300	350	350	333,3	28,9
	FV	550	600	590	580	26,5
	FVI	850	800	840	830	26,5
Siklus 4	FI	200	250	210	220	26,5
	FII	250	300	260	270	26,5
	FIII	500	510	550	520	26,5
	FIV	390	400	410	400	10,0
	FV	450	500	510	486,7	32,1
	FVI	810	750	800	786,7	32,1
Siklus 5	FI	210	190	200	200	10,0
	FII	290	250	300	280,0	26,5
	FIII	550	500	510	520	26,5
	FIV	350	390	350	363,3	23,1
	FV	610	590	550	583,3	30,6
	FVI	900	850	890	880	26,5
Siklus 6	FI	250	250	210	236,7	23,1
	FII	300	250	260	270	26,5
	FIII	490	500	510	500	10,0
	FIV	350	400	400	383,3	28,9
	FV	600	550	590	580	26,5
	FVI	800	810	850	820	26,5

**Lampiran 17. Data hasil uji aktivitas antibakteri sediaan masker gel
*peel off***

HASIL UJI AKTIVITAS ANTIBAKTERI SEDIAAN					
Formula	D1	D2	D3	Rata - rata	SD
FI	-	-	-	-	-
FII	-	-	-	-	-
FIII	-	-	-	-	-
FIV	25	25	25	25,00	0
FV	26	27	27	26,67	1
FVI	29	30	29	29,33	1
Kontrol +	32	31	32	31,67	1

Lampiran 18. Analisis spss uji aktivitas antibakteri pada ekstrak

ANOVA

Ekstrak

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4.000	4	1.250	3.300	.034
Within Groups	1.000	4	.250		
Total	4.300	8			

Lampiran 19. Analisis spss sebelum penyimpanan

1. Uji Normalitas

a) pH, daya lekat, dan waktu mengering

	Tests of Normality					
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH	,221	18	,021	,857	18	,011
DayaLekat	,125	18	,200*	,968	18	,759
WaktuMengering	,100	18	,200*	,969	18	,773

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

a. Lilliefors Significance Correction

b) daya sebar

	Tests of Normality					
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Dayasebar100	,119	18	,200*	,966	18	,728

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

a. Lilliefors Significance Correction

c) viskositas

	Tests of Normality					
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	,167	18	,200*	,889	18	,037

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

a. Lilliefors Significance Correction

2. Uji Kruskal Wallis pada FI, FII, FIII

a) pH

Test Statistics^{a,b}

	pH
Kruskal-Wallis H	7,200
df	2
Asymp. Sig.	,027

a. Kruskal Wallis Test

b. Grouping Variable: Formula

b) viskositas

Test Statistics^{a,b}

Viskositas	
Kruskal-Wallis H	7.200
df	2
Asymp. Sig.	.027

a. Kruskal Wallis Test

b. Grouping Variable: Formula

3. Uji One Way ANOVA pada FI, FII, FIII

a) daya lekat dan waktu mengering

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DayaLekat	Between Groups	43,927	2	21,964	10,674	,011
	Within Groups	12,346	6	2,058		
	Total	56,273	8			
WaktuMengering	Between Groups	119,429	2	59,714	5,470	,044
	Within Groups	65,505	6	10,917		
	Total	184,934	8			

b) daya sebar

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DayaSebar100	Between Groups	2,847	2	1,423	4,417	,020
	Within Groups	1,933	6	,322		
	Total	4,780	8			

4. Uji Mann-Whitney pada FI dan FIV

a) pH

Test Statistics^a

pH	
Mann-Whitney U	,000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	,050
Exact Sig. [2*(1-tailed Sig.)]	,100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

Viskositas	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

5. Uji Independent Samples Test pada FI dan FIV

a) daya lekat dan waktu mengering

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	,470	,531	-2,026	4	,113	-1,87000	,92312	-4,43300	-,69300
	Equal variances not assumed			-2,026	3,726	,118	-1,87000	,92312	-4,50915	-,76915
WaktuMengering	Equal variances assumed	,121	,745	-4,388	4	,012	-6,40000	1,45859	10,44970	-2,35030
	Equal variances not assumed			-4,388	3,699	,014	-6,40000	1,45859	10,58317	-2,21683

b) daya sebar

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaSebar100	Equal variances assumed	1,049	,364	4,603	4	,010	,93333	,20276	,37038	1,49628
	Equal variances not assumed			4,603	3,165	,017	,93333	,20276	,30672	1,55995

6. Uji Mann-Whitney pada FII dan FV

a) pH

Test Statistics^a

	pH
Mann-Whitney U	,000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	,050
Exact Sig. [2*(1-tailed Sig.)]	,100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

	Viskositas
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.993
Asymp. Sig. (2-tailed)	.046
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

7. Uji Independent Samples Test pada FII dan FV

a) daya lekat dan waktu mengering

		Independent Samples Test								
		Levene's Test for Equality of Variances			t-test for Equality of Means					
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	,715	,445	-2,114	4	,102	-2,27667	1,07685	-5,26649	,71315
	Equal variances not assumed			-2,114	3,430	,113	-2,27667	1,07685	-5,47295	,91962
WaktuMengering	Equal variances assumed	,638	,469	-4,803	4	,009	-7,09000	1,47607	11,18823	-2,99177
	Equal variances not assumed			-4,803	3,615	,011	-7,09000	1,47607	11,36621	-2,81379

b) daya sebar

		Independent Samples Test								
		Levene's Test for Equality of Variances			t-test for Equality of Means					
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper

DayaSebar100	Equal variances assumed	1,429	,298	1,955	4	,122	,96667	,49441	-	2,33938
	Equal variances not assumed			1,955	3,382	,135	,96667	,49441	-	2,44409

8. Uji Mann-Whitney pada FIII dan FVI

a) pH

Test Statistics^a

pH	
Mann-Whitney U	,000
Wilcoxon W	6,000
Z	-1,964
Asymp. Sig. (2-tailed)	,050
Exact Sig. [2*(1-tailed Sig.)]	,100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

Viskositas	
Mann-Whitney U	.000
Wilcoxon W	6.000
Z	-1.964
Asymp. Sig. (2-tailed)	.050
Exact Sig. [2*(1-tailed Sig.)]	.100 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

9. Uji Independent Samples Test pada FIII dan FVI

a) daya lekat dan waktu mengering

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	,635	,470	-1,503	4	,207	-1,52333	1,01322	-4,33648	1,28981
	Equal variances not assumed			-1,503	3,533	,216	-1,52333	1,01322	-4,48935	1,44268
WaktuMengering	Equal variances assumed	1,255	,325	-2,283	4	,048	-7,76667	3,40207	-17,21234	1,67901
	Equal variances not assumed			-2,283	3,186	,101	-7,76667	3,40207	-18,24482	2,71149

b) daya sebar

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaSebar100	Equal variances assumed	,136	,731	1,838	4	,140	,93333	,50772	-,47632	2,34299
	Equal variances not assumed			1,838	3,981	,140	,93333	,50772	-,47897	2,34563

Lampiran 20. Analisis spss sesudah penyimpanan

1. Uji Normalitas

a) pH, daya lekat, dan waktu mengering

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH	,337	36	,000	,675	36	,000
DayaLekat	,088	36	,200*	,956	36	,164
WaktuMengering	,075	36	,200*	,971	36	,442

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

a. Lilliefors Significance Correction

b) daya sebar

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DayaSebar100	,112	36	,200*	,961	36	,233

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

a. Lilliefors Significance Correction

c) viskositas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	,184	36	,003	,881	36	,001

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

a. Lilliefors Significance Correction

2. Uji Kruskal Wallis pada FI, FII, FIII

a) pH

Test Statistics^{a,b}

	pH
Kruskal-Wallis H	15,205
df	2
Asymp. Sig.	,000

a. Kruskal Wallis Test

b. Grouping Variable: Formula

b) viskositas

Test Statistics^{a,b}

viskositas	
Kruskal-Wallis H	14,825
df	2
Asymp. Sig.	,001

a. Kruskal Wallis Test

b. Grouping Variable: Formula

3. Uji One Way ANOVA pada FI, FII, FIII

a) daya lekat dan waktu mengering

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DayaLekat	Between Groups	36,808	2	18,404	40,306	,000
	Within Groups	6,849	15	,457		
	Total	43,657	17			
WaktuMengering	Between Groups	189,429	2	94,715	105,715	,000
	Within Groups	13,439	15	,896		
	Total	202,868	17			

b) daya sebar

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DayaSebar100	Between Groups	7,668	2	3,834	89,391	,000
	Within Groups	,643	15	,043		
	Total	8,311	17			

4. Uji Mann-Whitney pada FI dan FIV

a) pH

Test Statistics^a

pH	
Mann-Whitney U	,000
Wilcoxon W	21,000
Z	-2,887
Asymp. Sig. (2-tailed)	,004
Exact Sig. [2*(1-tailed Sig.)]	,002 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

viskositas	
Mann-Whitney U	,500
Wilcoxon W	21,500
Z	-2,812
Asymp. Sig. (2-tailed)	,005
Exact Sig. [2*(1-tailed Sig.)]	,002 ^a

a. Grouping Variable: Formula

b. Not corrected for ties.

5. Uji Independent Samples Test untuk FI dan FIV

a) daya lekat dan waktu mengering

		Levene's Test for Equality of Variance		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	1,281	,284	-8,144	10	,000	-2,53000	,31066	-3,22219	-1,83781
	Equal variances not assumed			-8,144	8,231	,000	-2,53000	,31066	-3,24290	-1,81710
WaktuMengering	Equal variances assumed	,2013	,663	-7,035	10	,000	-4,37500	,62188	-5,76065	-2,98935
	Equal variances not assumed			-7,035	8,627	,000	-4,37500	,62188	-5,79113	-2,95887

b) daya sebar

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaSebar100	Equal variances assumed	,000	1,000	8,671	10	,000	1,08333	,12494	,80494	1,36173
	Equal variances not assumed			8,671	10,000	,000	1,08333	,12494	,80494	1,36173

6. Uji Mann-Whitney pada FII dan FV

a) pH

Test Statistics^a

	pH
Mann-Whitney U	2,500
Wilcoxon W	23,500
Z	-2,495
Asymp. Sig. (2-tailed)	,013
Exact Sig. [2*(1-tailed Sig.)]	,009 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

	viskositas
Mann-Whitney U	,000
Wilcoxon W	21,000
Z	-2,898
Asymp. Sig. (2-tailed)	,004
Exact Sig. [2*(1-tailed Sig.)]	,002 ^a

a. Grouping Variable: Formula

b. Not corrected for ties.

7. Uji Independent Samples Test untuk FII dan FV

a) daya lekat dan waktu mengering

		Independent Samples Test								
		Levene's Test for Equality of Variances			t-test for Equality of Means					
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	,168	,691	-4,244	10	,002	-1,84000	,43354	-2,80598	-,87402
	Equal variances not assumed			-4,244	9,956	,002	-1,84000	,43354	-2,80657	-,87343
WaktuMengering	Equal variances assumed	,097	,762	-14,937	10	,000	-4,29167	,28731	-4,93183	-3,65150
	Equal variances not assumed			-14,937	9,950	,000	-4,29167	,28731	-4,93227	-3,65106

b) daya sebar

		Independent Samples Test								
		Levene's Test for Equality of Variances			t-test for Equality of Means					
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper

DayaLekat	Equal varianc es assume d	1,71 0	,22 0	- 3,76 4	10	,004	- 1,55167	,41222	- 2,470 16	- ,6331 7
	Equal varianc es not assume d			- 3,76 4	8,90 9	,005	- 1,55167	,41222	- 2,485 64	- ,6176 9
WaktuMenger ing	Equal varianc es assume d	,664	,43 4	- 6,99 6	10	,000	- 4,45667	,63703	- 5,876 05	- 3,037 29
	Equal varianc es not assume d			- 6,99 6	9,10 1	,000	- 4,45667	,63703	- 5,895 30	- 3,018 04

b) daya sebar

Independent Samples Test

		Levene's Test for Equality of Variance s		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2- taile d)	Mean Differen ce	Std. Error Differen ce	95% Confidence Interval of the Difference	
									Lower	Upper
DayaSebar1 00	Equal varianc es assume d	2,52 1	,14 3	6,14 0	10	,000	,78333	,12758	,4990 6	1,0676 1
	Equal varianc es not assume d			6,14 0	8,29 2	,000	,78333	,12758	,4909 1	1,0757 5

Lampiran 21. analisis spss sebelum dan sesudah penyimpanan

1. Uji Normalitas

a) pH, daya lekat, dan waktu mengering

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
pH	,301	42	,000	,701	42	,000
DayaLekat	,070	42	,200*	,979	42	,637
WaktuMengering	,067	42	,200*	,982	42	,748

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

a. Lilliefors Significance Correction

b) daya sebar

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
DayaSebar100	,088	42	,200*	,973	42	,423

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

a. Lilliefors Significance Correction

c) viskositas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	,178	42	,002	,874	42	,000

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

a. Lilliefors Significance Correction

2. Uji Kruskal Wallis pada FI, FII, FIII

a) pH

Test Statistics^{a,b}

pH	
Kruskal-Wallis H	17,865
df	2
Asymp. Sig.	,000

a. Kruskal Wallis Test

b. Grouping Variable: Formula

b) viskositas

Test Statistics^{a,b}

viskositas	
Kruskal-Wallis H	16,701
df	2
Asymp. Sig.	,000

a. Kruskal Wallis Test

b. Grouping Variable: Formula

3. Uji One Way ANOVA pada FI, FII, FIII

a) daya lekat dan waktu mengering

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DayaLekat	Between Groups	29,153	2	14,577	14,893	,000
	Within Groups	17,618	18	,979		
	Total	46,771	20			
WaktuMengering	Between Groups	233,477	2	116,739	55,933	,000
	Within Groups	37,568	18	2,087		
	Total	271,046	20			

b) daya sebar

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
DayaSebar100	Between Groups	8,492	2	4,246	73,090	,000
	Within Groups	1,046	18	,058		
	Total	9,538	20			

4. Uji Mann-Whitney pada FI dan FIV

a) pH

Test Statistics^a

	pH
Mann-Whitney U	,000
Wilcoxon W	28,000
Z	-3,134
Asymp. Sig. (2-tailed)	,002
Exact Sig. [2*(1-tailed Sig.)]	,001 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

	viskositas
Mann-Whitney U	4,000
Wilcoxon W	32,000
Z	-2,628
Asymp. Sig. (2-tailed)	,009
Exact Sig. [2*(1-tailed Sig.)]	,007 ^a

a. Grouping Variable: Formula

b. Not corrected for ties.

5. Uji Independent Samples Test untuk FI dan FIV

a) daya lekat dan waktu mengering

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	,078	,785	-8,177	12	,000	-2,43571	,29788	3,08474	-1,78668
	Equal variances not assumed			-8,177	11,648	,000	-2,43571	,29788	3,08693	-1,78450

WaktuMengering	Equal variances assumed	,429	,525	-5,655	12	,000	-4,86000	,85936	-6,73239	-2,98761
	Equal variances not assumed			-5,655	10,373	,000	-4,86000	,85936	-6,76548	-2,95452

b) daya sebar

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaSebar100	Equal variances assumed	,089	,771	7,579	12	,000	1,05714	,13948	,75323	1,36105
	Equal variances not assumed			7,579	11,671	,000	1,05714	,13948	,75228	1,36200

6. Uji Mann-Whitney pada FII dan FV

a) pH

Test Statistics^a

	pH
Mann-Whitney U	2,500
Wilcoxon W	30,500
Z	-2,820
Asymp. Sig. (2-tailed)	,005
Exact Sig. [2*(1-tailed Sig.)]	,002 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

viskositas	
Mann-Whitney U	,000
Wilcoxon W	28,000
Z	-3,141
Asymp. Sig. (2-tailed)	,002
Exact Sig. [2*(1-tailed Sig.)]	,001 ^a

a. Grouping Variable: Formula

b. Not corrected for ties.

7. Uji Independent Samples Test untuk FII dan FV

a) daya lekat dan waktu mengering

		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaLekat	Equal variances assumed	,130	,724	-3,547	12	,004	1,90286	,53642	3,07161	,73411
	Equal variances not assumed			-3,547	11,731	,004	1,90286	,53642	3,07458	,73113
WaktuMengering	Equal variances assumed	,000	,995	-12,547	12	,000	4,69143	,37392	5,50613	3,87673
	Equal variances not assumed			-12,547	11,720	,000	4,69143	,37392	5,50829	3,87456

b) daya sebar

		Independent Samples Test								
		Levene's Test for Equality of Variances			t-test for Equality of Means					
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
DayaSebar100	Equal variances assumed	1,521	,241	5,200	12	,000	,74286	,14286	,43160	1,05412
	Equal variances not assumed			5,200	8,616	,001	,74286	,14286	,41748	1,06823

8. Uji Mann-Whitney pada FIII dan FVI

a) pH

Test Statistics^a

	pH
Mann-Whitney U	2,000
Wilcoxon W	30,000
Z	-2,917
Asymp. Sig. (2-tailed)	,004
Exact Sig. [2*(1-tailed Sig.)]	,002 ^b

a. Grouping Variable: Formula

b. Not corrected for ties.

b) viskositas

Test Statistics^a

	viskositas
Mann-Whitney U	,000
Wilcoxon W	28,000
Z	-3,130
Asymp. Sig. (2-tailed)	,002
Exact Sig. [2*(1-tailed Sig.)]	,001 ^a

a. Grouping Variable: Formula

b. Not corrected for ties.

9. Uji Independent Samples Test untuk FIII dan FVI

a) daya lekat dan waktu mengering

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
DayaLekat	Equal variances assumed	,368	,555	-2,307	12	,040	-1,54714	,67055	3,00814	-,08615
	Equal variances not assumed			-2,307	11,875	,040	-1,54714	,67055	3,00984	-,08444
WaktuMengering	Equal variances assumed	3,807	,075	-7,483	12	,000	-4,73429	,63264	6,11269	3,35588
	Equal variances not assumed			-7,483	9,672	,000	-4,73429	,63264	6,15040	3,31817

b) daya sebar

Independent Samples Test

		Levene's Test for Equality of Variances		t-test for Equality of Means					95% Confidence Interval of the Difference	
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	Lower	Upper
DayaSebar100	Equal variances assumed	,434	,523	6,183	12	,000	,81429	,13171	,52732	1,10125
	Equal variances not assumed			6,183	11,825	,000	,81429	,13171	,52685	1,10172

Lampiran 22. Analisis spss aktivitas antibakteri pada sediaan

1. Uji Normalitas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Ujiantibakterisediaan	.182	9	.200 [*]	.877	9	.145

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

a. Lilliefors Significance Correction

2. Uji One Way ANOVA

ANOVA						
Ujiantibakterisediaan	Sum of Squares	df	Mean Square	F	Sig.	
Between Groups	28.667	2	14.333	64.500	.000	
Within Groups	1.333	6	.222			
Total	30.000	8				

Lampiran 23. Alat-alat laboratorium



Evaporator



Desikator



LAF



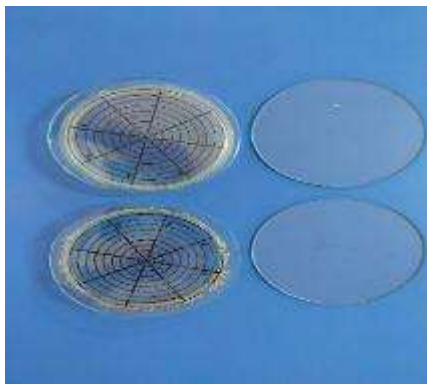
Oven



Rak tabung reaksi



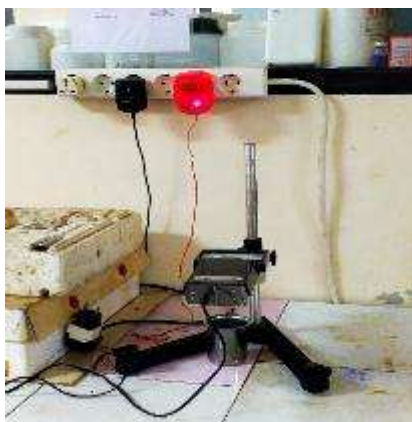
Kawat ose dan pembakar spirtus



Alat daya sebar



Alat daya lekat



Viskometer



Gelas ukur 50 ml dan 100 ml



Beban 50 gram dan 100 gram



Mortir dan stamfer



Spatel



Alat destilasi

Lampiran 24. Hasil ekstrak

Lampiran 25. Hasil uji skrining fitokimia.



Flavonoid



Tanin



Saponin



Terpenoid

Lampiran 26. Hasil kadar air



Replikasi 1



Replikasi 2



Replikasi 3

Lampiran 27. Hasil susut pengeringan

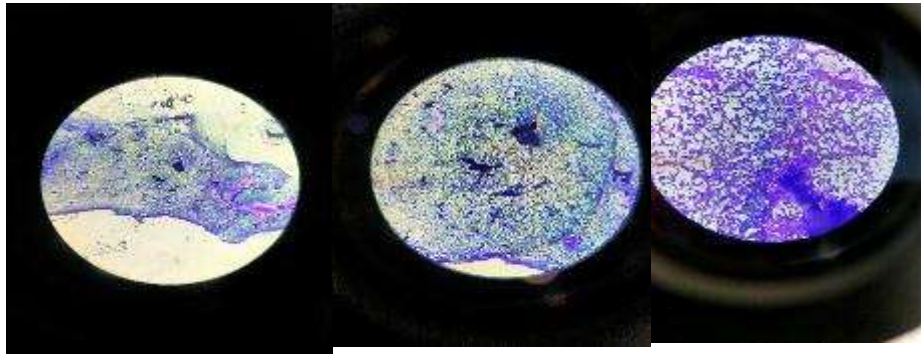


Gravimetri



Mositure balance

Lampiran 28. Hasil uji pewarnaan gram



Perbesaran 10x

Perbesaran 40x

Perbesaran 100x

Lampiran 29. Hasil uji koagulase dan katalase



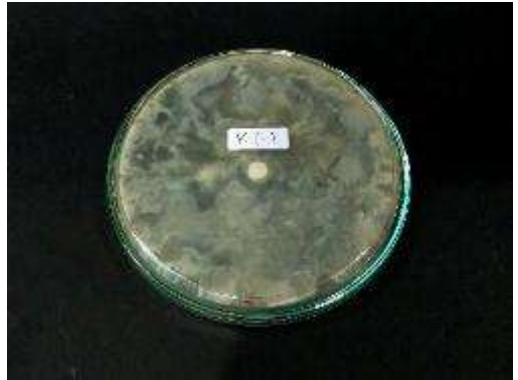
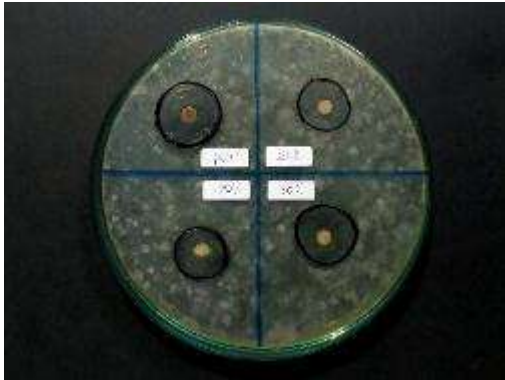
Uji koagulase

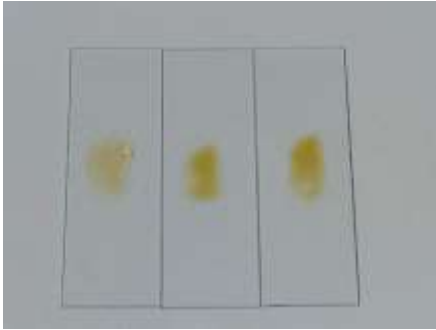


Uji katalase

Lampiran 30. Hasil peremajaan dan suspensi bakteri *Propionibacterium acnes***Lampiran 31. Ekstrak buah belimbing wuluh dengan berbagai konsentrasi**

Lampiran 32. Hasil uji aktivitas antibakteri ekstrak buah belimbing wuluh

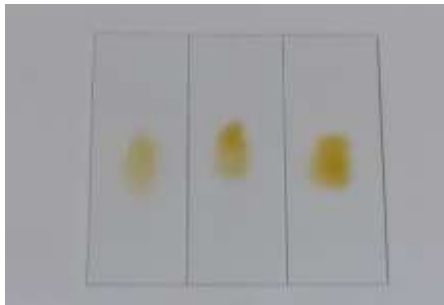


Lampiran 33. Hasil uji homogenitas

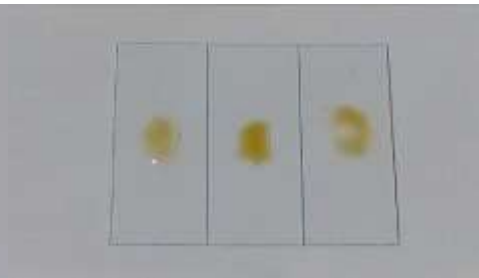
Siklus 0



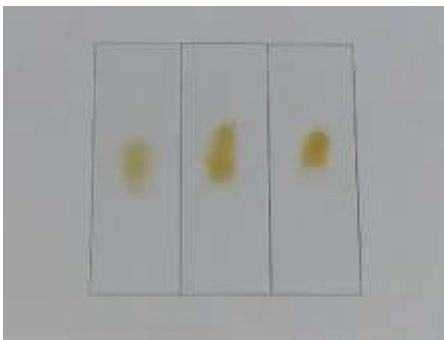
Siklus 1



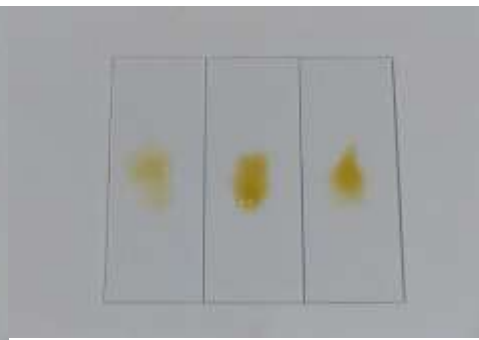
Siklus 2



Siklus 3



Siklus 4



Siklus 5



Siklus 6

Lampiran 34. Hasil uji waktu mengering

Siklus 0



Siklus 4



Siklus 1



Siklus 5



Siklus 2



Siklus 6

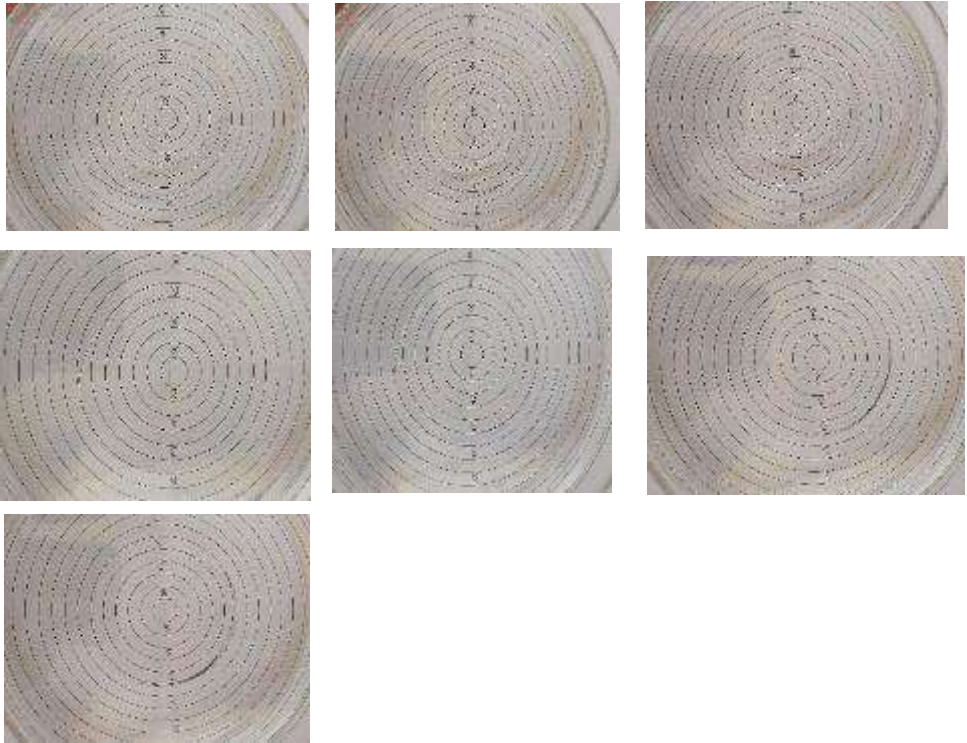


Siklus 3

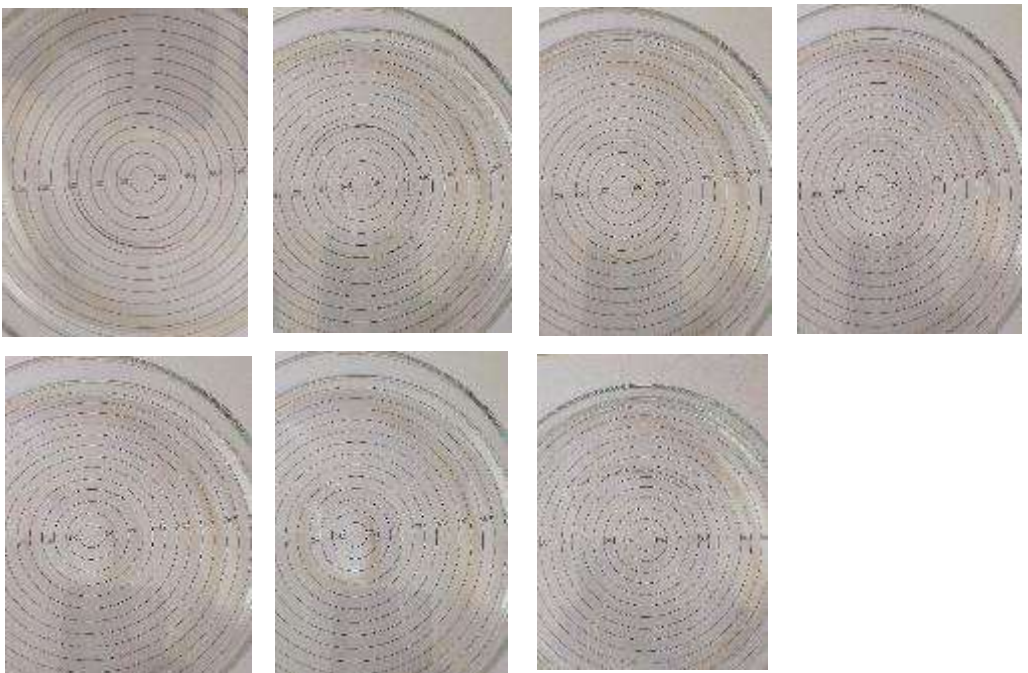


Lampiran 35. Hasil uji daya sebar

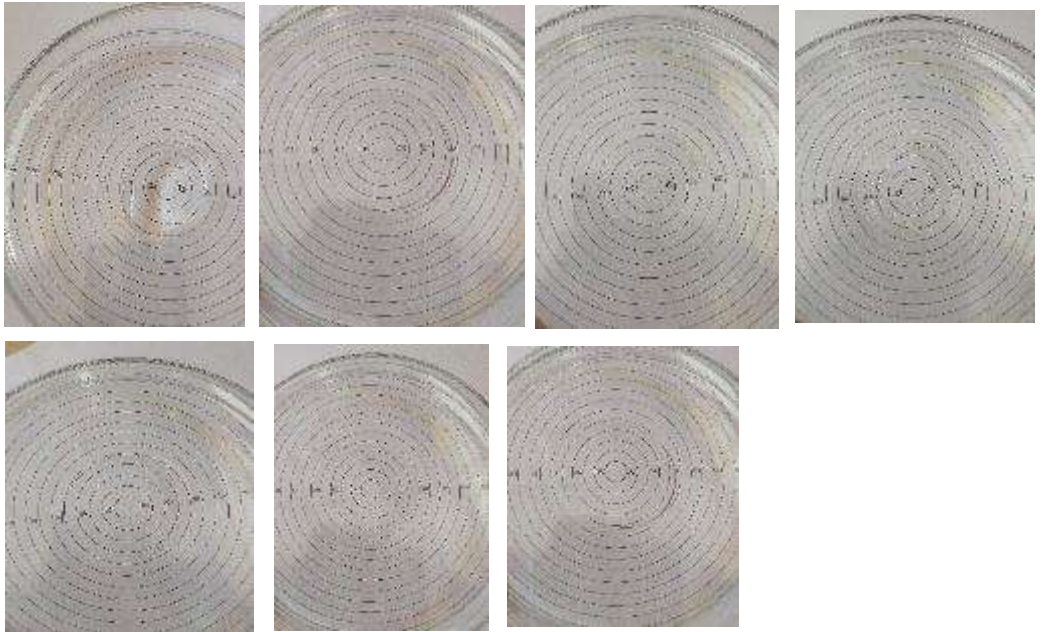
a) FI



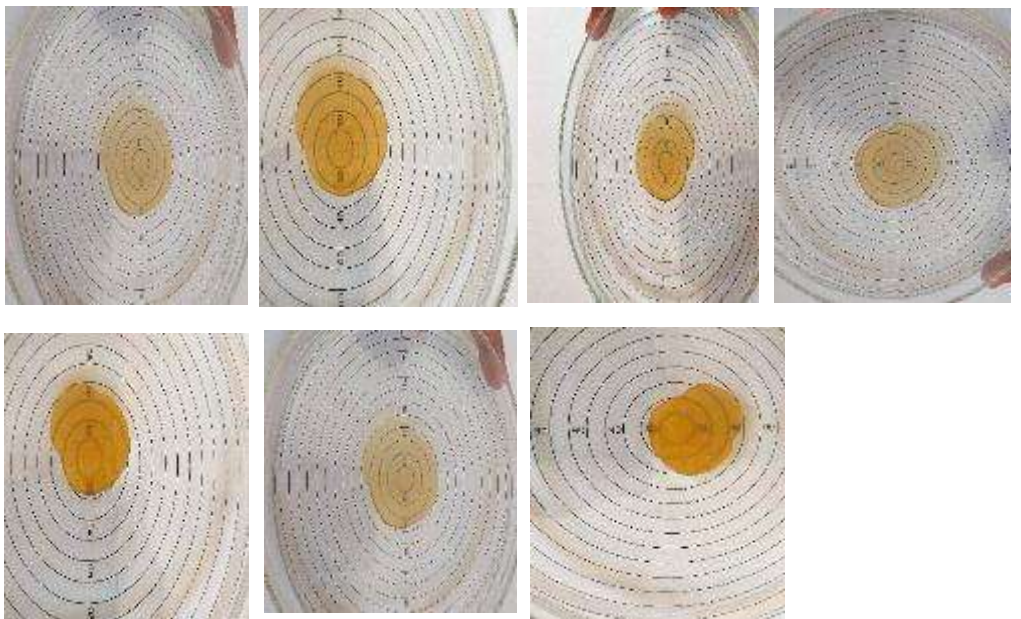
b) FII



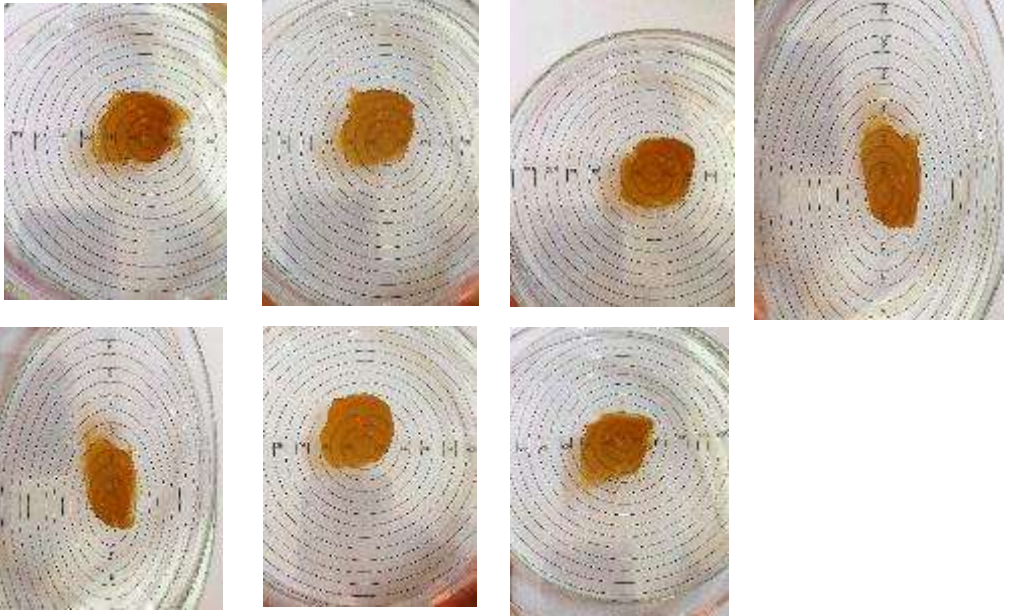
c) FIII



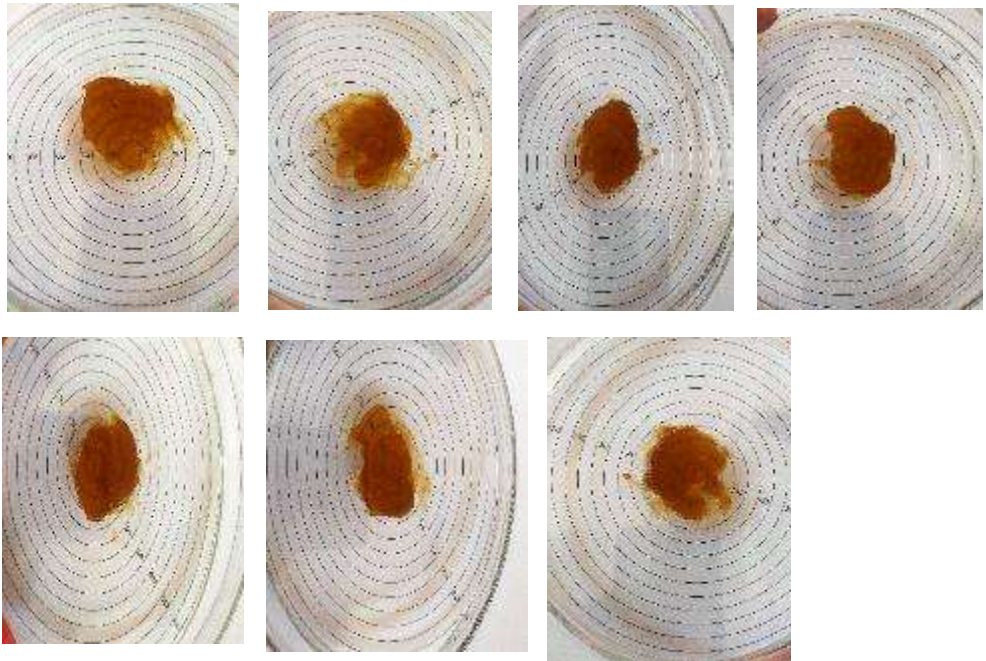
d) FIV



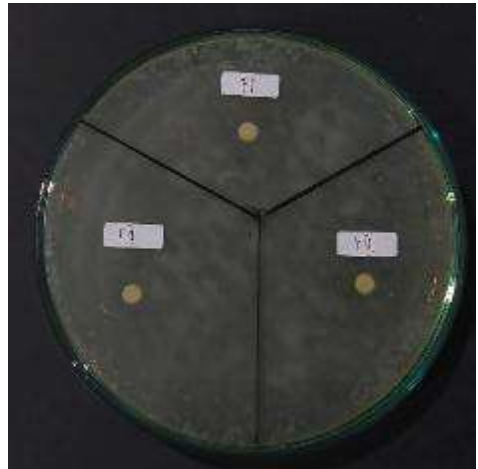
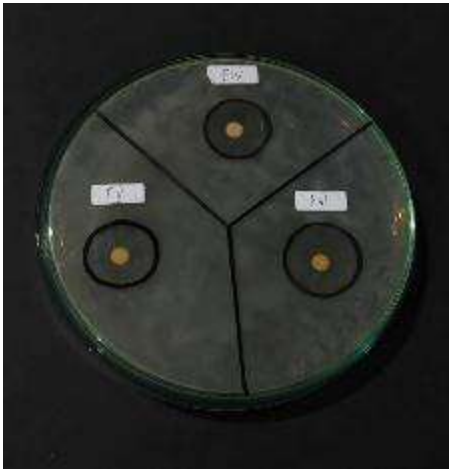
e) FV



f) FVI



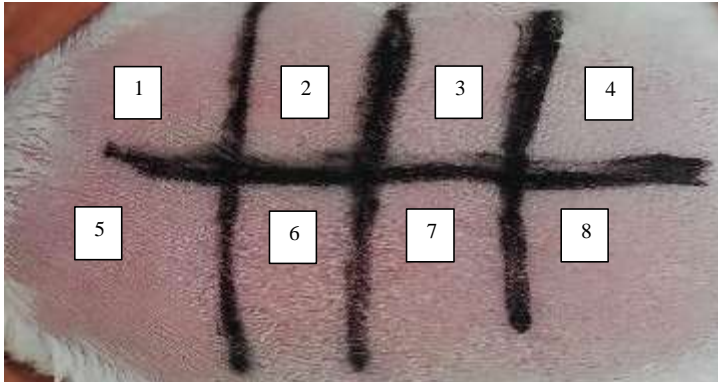
Lampiran 36. Hasil uji aktivitas antibakteri sediaan masker gel peel off



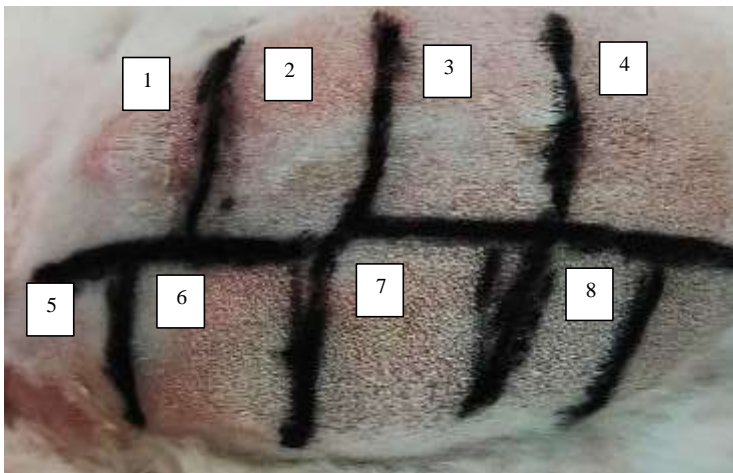
Lampiran 37. Hasil uji iritasi pada kelinci

Waktu 24 jam

Kelinci 1



Kelinci 2



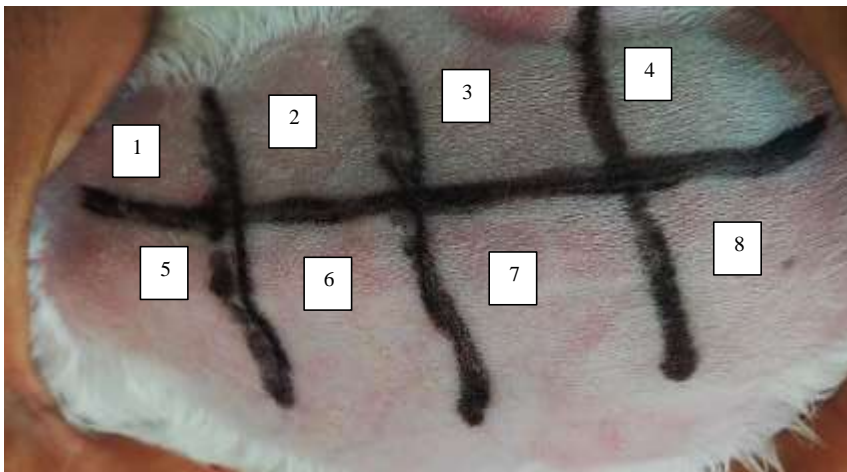
115

Kelinci 3

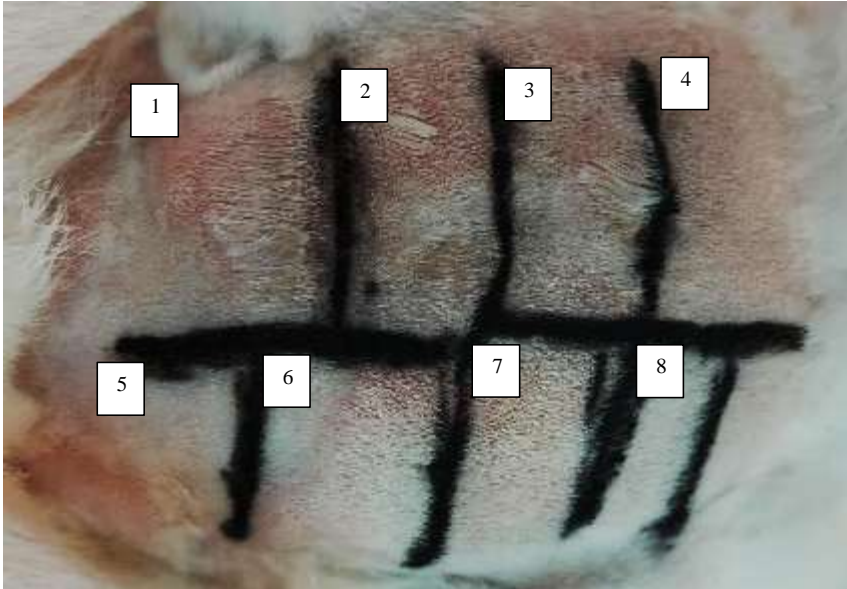


Waktu 48 jam

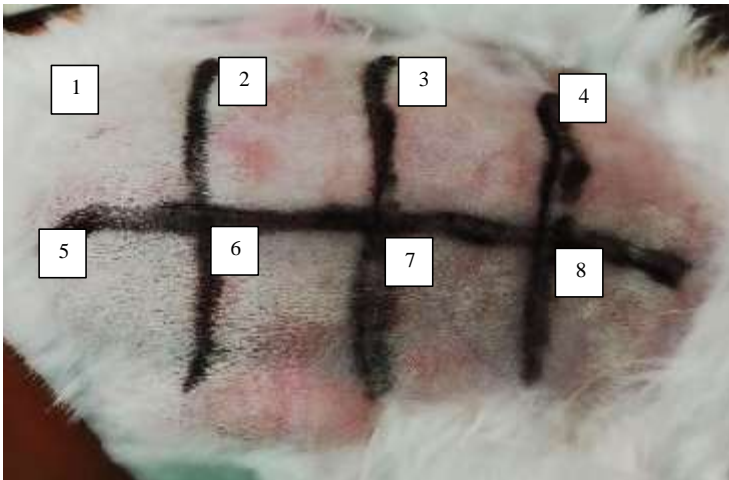
Kelinci 1



Kelinci 2



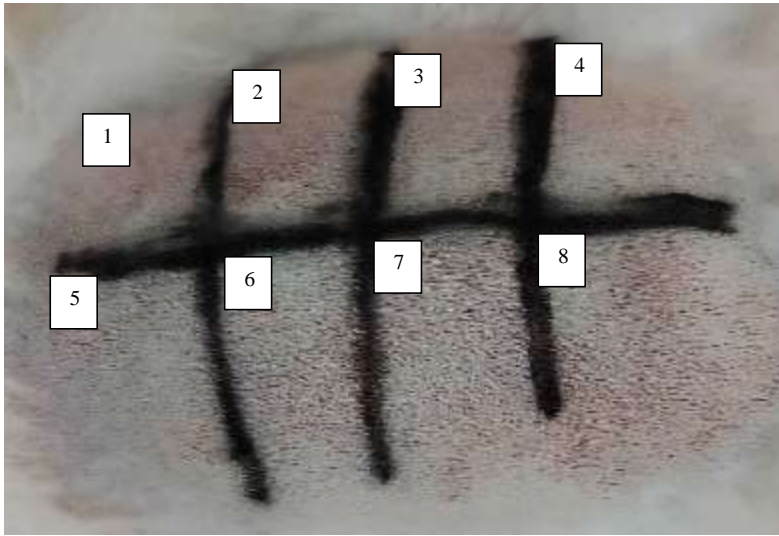
Kelinci 3



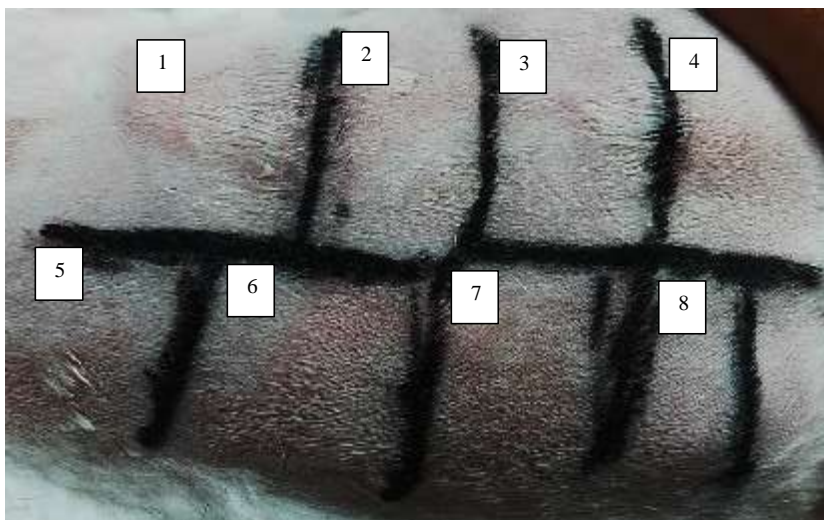
117

Waktu 72 jam

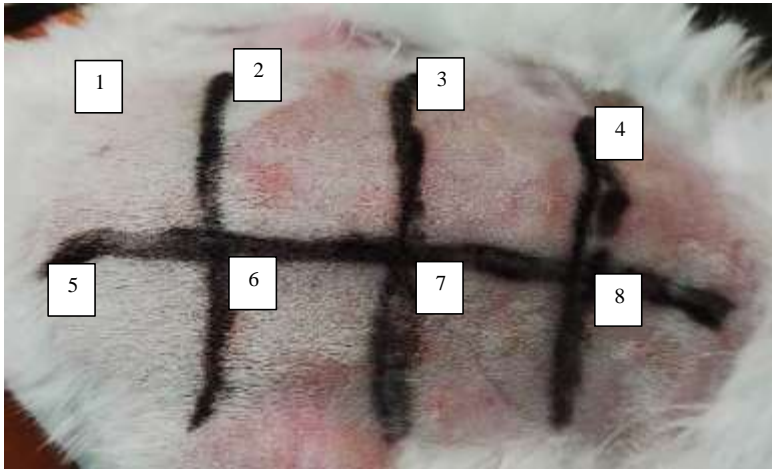
Kelinci 1



Kelinci 2



Kelinci 3



Lampiran 38. Sertifikat determinasi tanaman buah belimbing wuluh



UPT-LABORATORIUM

Nomor : 298/DET/UPT-LAB/10.11.2021
 Hal : Hasil determinasi tumbuhan
 Lamp. : -

Nama Pemesan : Anni Salsubila Putri
 NIM : 24185398.A
 Alamat : Program Studi S1 Farmasi, Universitas Setia Budi, Surakarta
 Nama sampel : Belimbing wuluh (*Averrhoa bilimbi* L.)

HASIL DETERMINASI TUMBUHAN

Klasifikasi :
 Kingdom : Plantae
 Super divisi : Spermatophyta
 Divisi : Magnoliophyta
 Kelas : Magnoliopsida
 Ordo : Geraniales
 Familia : Oxalidaceae
 Genus : *Averrhoa*
 Species : *Averrhoa bilimbi* L.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 15b, golongan 9. 197b – 208b – 219b – 220b – 224b – 225b – 227b – 229b – 230b – 234b – 235b – 236b – 237b – 238a, familia 61. Oxalidaceae. A.1. *Averrhoa* 1a. *Averrhoa bilimbi* L.

Deskripsi:

Habitus : Pohon, 5 – 10 meter.
 Akar : Tumpang.

- Batang : Bulat, berkayu, monopodial, tegak, terdapat tanda bekas daun bentuk ginjal atau jantung.
- Daun : Daun majemuk menyirip ganjil. Daun penumpu tidak ada. Anak daun bulat telur memanjang, ujung meruncing, pangkal membulat, tepi rata, panjang 2,7 – 4,5 cm, lebar 1,7 – 2 cm, ke arah ujung poros lebih besar, permukaan bawah hijau muda.
- Bunga : Malai bunga menggantung, panjang 5 – 20 cm. Bunga semuanya dengan panjang tangkai putik yang sama. Kelopak panjang lk 6 mm. Daun mahkota tidak atau hampir bergandengan, bentuk spatel atau lanset, dengan pangkal yang pucat. 5 benang sari di depan daun mahkota mereduksi menjadi staminodia.
- Buah : Buni bulat persegi membulat tumpul, kuning hijau, panjang 4 – 6,5 cm, mengandung banyak air, terasa sangat masam.

Kepala UPT-LAB
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 10 November 2021

Penanggung jawab
Determinasi Tumbuhan

Dra. Dewi Sulistyawati, M.Sc.

Lampiran 39. Sertifikat *ethical clearance*

9/15/21, 12:35 PM

KEPK-RSDM



**HEALTH RESEARCH ETHICS COMMITTEE
KOMISI ETIK PENELITIAN KESEHATAN**

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 858 / IX / HREC / 2021

The Health Research Ethics Committee Dr. Moewardi
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

after reviewing the proposal design, hereby to certify
setelah meneliti rancangan penelitian yang diusulkan, dengan ini menyatakan

That the research proposal with topic :
Bahwa usulan penelitian dengan judul

FORMULASI DAN UJI AKTIVITAS ANTIBAKTERI TERHADAP *Propionibacterium acnes* SERTA UJI KEAMANAN SEDIAAN MASKER GEL PEEL OFF BELIMBING WULUH (*Averrhoa bilimbi* L.) PADA KULIT KELINCI

Principal investigator : ANNI SALSABILA PUTRI
Peneliti Utama 24185398A

Location of research : Laboratorium Universitas Setia Budi Surakarta
Lokasi Tempat Penelitian

Is ethically approved
Dinyatakan layak etik

Issued on : 15 September 2021


Chahrono
Ketua

Dr. Wahyu Dwi Almqoko, Sp.F.
19770224 201001 1 004

<https://komis etik dr moewardi.com/kepk/etikal/clearance/24185398A-1216>

1/1