

LAMPIRAN

Lampiran1 . Tabel Hasil

1.1 Tabel Uji Parameter Air

Perlakuan	Ulangan	pH	DO (ppm)	TDS (mg/l)
Awal	1	7,31	6,7	356
K2V1	1	8,23	7,4	315
	2	8,45	7,6	307
	3	8,24	7,7	298
K2V2	1	8,27	7,5	287
	2	8,27	7,4	276
	3	8,28	7,8	277
K2V3	1	8,14	7,8	245
	2	8,17	7,3	243
	3	8,15	7,4	235
K3V1	1	8,1	7,7	206
	2	8,45	7,6	218
	3	8,21	7,1	316
K3V2	1	8,27	7,5	209
	2	8,28	7,4	216
	3	8,27	7,8	176
K3V3	1	8,3	7,8	151
	2	8,16	7,9	196
	3	8,13	7,5	157

1.2 Tabel pH

perlakuan	pH Awal	pH akhir	perubahan pH	% perubahan	% rata-rata	Stdev pH
K2V1	7,1	8,23	1,13	14%	15%	1%
	7,1	8,45	1,35	16%		
	7,1	8,24	1,14	14%		
K2V2	7,1	8,27	1,17	14%	14%	0%
	7,1	8,27	1,17	14%		
	7,1	8,28	1,18	14%		
K2V3	7,1	8,14	1,04	13%	13%	0%
	7,1	8,17	1,07	13%		
	7,1	8,15	1,05	13%		
K3V1	7,1	8,1	1	12%	14%	2%
	7,1	8,45	1,35	16%		
	7,1	8,21	1,11	14%		
K3V2	7,1	8,27	1,17	14%	14%	0%
	7,1	8,28	1,18	14%		
	7,1	8,27	1,17	14%		
K3V3	7,1	8,3	1,2	14%	13%	1%
	7,1	8,16	1,06	13%		
	7,1	8,13	1,03	13%		

1.3 Tabel oksigen terlarut (DO)

perlakuan	DO Awal	DO akhir	perubahan DO	% perubahan	% rata-rata	Stdev DO
K2V1	6,7	7,4	0,7	9%	11%	2%
	6,7	7,6	0,9	12%		
	6,7	7,7	1	13%		
K2V2	6,7	7,5	0,8	11%	11%	2%
	6,7	7,4	0,7	9%		
	6,7	7,8	1,1	14%		
K2V3	6,7	7,8	1,1	14%	11%	3%
	6,7	7,3	0,6	8%		
	6,7	7,4	0,7	9%		
K3V1	6,7	7,7	1	13%	10%	4%
	6,7	7,6	0,9	12%		
	6,7	7,1	0,4	6%		
K3V2	6,7	7,5	0,8	11%	11%	2%
	6,7	7,4	0,7	9%		
	6,7	7,8	1,1	14%		
K3V3	6,7	7,8	1,1	14%	13%	2%
	6,7	7,9	1,2	15%		
	6,7	7,5	0,8	11%		

1.4 Tabel TDS

perlakuan	TDS Awal	TDS akhir	perubahan TDS	% perubahan	% rata-rata	Stdev TDS
K2V1	359	315	44	12%	15%	2%
	359	307	52	14%		
	359	298	61	17%		
K2V2	359	287	72	20%	22%	2%
	359	276	83	23%		
	359	277	82	23%		
K2V3	359	245	114	32%	33%	1%
	359	243	116	32%		
	359	235	124	35%		
K3V1	359	206	153	43%	31%	17%
	359	218	141	39%		
	359	316	43	12%		
K3V2	359	209	150	42%	44%	6%
	359	216	143	40%		
	359	176	183	51%		
K3V3	359	151	208	58%	53%	7%
	359	196	163	45%		
	359	157	202	56%		

1.5 Tabel Jumlah Mikroba

perlakuan	TDS Awal	Jumlah Mikroba akhir	perubahan Jumlah Mikroba	% perubahan	% rata-rata	Stdev Jumlah Mikroba
K2V1	62333,3	45000,0	17333,3	28%	23%	4%
	62333,3	49000,0	13333,3	21%		
	62333,3	50000,0	12333,3	20%		
K2V2	62333,3	46000,0	16333,3	26%	24%	2%
	62333,3	48000,0	14333,3	23%		
	62333,3	49000,0	13333,3	21%		
K2V3	62333,3	46000,0	16333,3	26%	25%	3%
	62333,3	49000,0	13333,3	21%		
	62333,3	45000,0	17333,3	28%		
K3V1	62333,3	42000,0	20333,3	33%	32%	6%
	62333,3	46000,0	16333,3	26%		
	62333,3	39000,0	23333,3	37%		
K3V2	62333,3	37000,0	25333,3	41%	39%	2%
	62333,3	40000,0	22333,3	36%		
	62333,3	38000,0	24333,3	39%		
K3V3	62333,3	35000,0	27333,3	44%	49%	8%
	62333,3	26000,0	36333,3	58%		
	62333,3	34000,0	28333,3	45%		

1.6 Tabel Presentase Perubahan

	kenaikan pH (%)	Stdev1	kenaikan DO (%)	Stdev2	penurunan TDS (%)	Stdev3	penurunan jumlah mikroba (%)	Stdev4
K2V1	14,18%	0,001	11,41%	0,024	44,20%	0,060	38,50%	0,025
K2V2	14,18%	0,001	11,41%	0,024	22,01%	0,017	23,53%	0,025
K2V3	12,92%	0,002	10,59%	0,031	32,87%	0,015	25,13%	0,033
K3V1	14,51%	0,013	11,43%	0,018	14,58%	0,024	22,99%	0,042
K3V2	13,95%	0,019	10,15%	0,040	31,29%	0,168	32,09%	0,056
K3V3	13,37%	0,010	13,32%	0,024	53,20%	0,068	49,20%	0,079

1.7 Tabel Data SPSS

Perlakuan	Ulangan	pH	DO	TDS	Mikroba
K2V1	1	0.13730255164034	0.0945945945945946	0.122562674094708	0.27807486631016
K2V1	1	0.159763313609467	0.118421052631579	0.144846796657382	0.213903743315508
K2V1	1	0.138349514563107	0.12987012987013	0.16991643454039	0.197860962566845
K2V2	2	0.141475211608222	0.106666666666667	0.200557103064067	0.262032085561497
K2V2	2	0.141475211608222	0.0945945945945946	0.231197771587744	0.229946524064171
K2V2	2	0.142512077294686	0.141025641025641	0.228412256267409	0.213903743315508
K2V3	3	0.127764127764128	0.141025641025641	0.317548746518106	0.262032085561497
K2V3	3	0.130966952264382	0.0821917808219178	0.323119777158774	0.213903743315508
K2V3	3	0.128834355828221	0.0945945945945946	0.345403899721448	0.27807486631016
K3V1	4	0.123456790123457	0.12987012987013	0.426183844011142	0.32620320855615
K3V1	4	0.159763313609467	0.118421052631579	0.392757660167131	0.262032085561497
K3V1	4	0.135200974421437	0.056338028169014	0.119777158774373	0.374331550802139
K3V2	5	0.141475211608222	0.106666666666667	0.417827298050139	0.406417112299465
K3V2	5	0.142512077294686	0.0945945945945946	0.398328690807799	0.358288770053476
K3V2	5	0.141475211608222	0.141025641025641	0.50974930362117	0.390374331550802
K3V3	6	0.144578313253012	0.141025641025641	0.579387186629526	0.438502673796791
K3V3	6	0.129901960784314	0.151898734177215	0.454038997214485	0.582887700534759
K3V3	6	0.126691266912669	0.106666666666667	0.562674094707521	0.454545454545455

1.8 Hasil Uji One Way Anova

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	0,001	5	0,000	1,063	0,427
Within Groups	0,001	12	0,000		
Total	0,002	17			

ANOVA

DO

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	0,002	5	0,000	0,464	0,796
Within Groups	0,009	12	0,001		
Total	0,011	17			

ANOVA

TDS

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	0,299	5	0,060	9,571	0,001
Within Groups	0,075	12	0,006		
Total	0,374	17			

ANOVA

Mikroba

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	0,161	5	0,032	14,289	0,000
Within Groups	0,027	12	0,002		
Total	0,189	17			

1.9 Uji Lanjut Tukey

1.9.1 pH

Multiple Comparisons

Dependent Variable:

Tukey HSD

(I) Perlakuan		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	0,00332	0,00815	0,998	-0,0241	0,0307
	3	0,01595	0,00815	0,417	-0,0114	0,0433
	4	0,00566	0,00815	0,979	-0,0217	0,0330
	5	0,00332	0,00815	0,998	-0,0241	0,0307
	6	0,01141	0,00815	0,727	-0,0160	0,0388
2	1	-0,00332	0,00815	0,998	-0,0307	0,0241
	3	0,01263	0,00815	0,643	-0,0148	0,0400
	4	0,00235	0,00815	1,000	-0,0250	0,0297
	5	0,00000	0,00815	1,000	-0,0274	0,0274
	6	0,00810	0,00815	0,912	-0,0193	0,0355
3	1	-0,01595	0,00815	0,417	-0,0433	0,0114
	2	-0,01263	0,00815	0,643	-0,0400	0,0148
	4	-0,01029	0,00815	0,799	-0,0377	0,0171
	5	-0,01263	0,00815	0,643	-0,0400	0,0148
	6	-0,00454	0,00815	0,992	-0,0319	0,0228
4	1	-0,00566	0,00815	0,979	-0,0330	0,0217
	2	-0,00235	0,00815	1,000	-0,0297	0,0250
	3	0,01029	0,00815	0,799	-0,0171	0,0377
	5	-0,00235	0,00815	1,000	-0,0297	0,0250
	6	0,00575	0,00815	0,978	-0,0216	0,0331
5	1	-0,00332	0,00815	0,998	-0,0307	0,0241
	2	0,00000	0,00815	1,000	-0,0274	0,0274
	3	0,01263	0,00815	0,643	-0,0148	0,0400
	4	0,00235	0,00815	1,000	-0,0250	0,0297
	6	0,00810	0,00815	0,912	-0,0193	0,0355
6	1	-0,01141	0,00815	0,727	-0,0388	0,0160
	2	-0,00810	0,00815	0,912	-0,0355	0,0193
	3	0,00454	0,00815	0,992	-0,0228	0,0319

4	-0,00575	0,00815	0,978	-0,0331	0,0216
5	-0,00810	0,00815	0,912	-0,0355	0,0193

pH

Tukey HSD^a

Perlakuan	N	Subset for alpha = 0.05 1
3	3	0,1292
6	3	0,1337
4	3	0,1395
2	3	0,1418
5	3	0,1418
1	3	0,1451
Sig.		0,417

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

1.9.2 DO

Multiple Comparisons

Dependent Variable:
Tukey HSD

(I) Perlakuan		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	0,00020	0,02253	1,000	-0,0755	0,0759
	3	0,00836	0,02253	0,999	-0,0673	0,0840
	4	0,01275	0,02253	0,992	-0,0629	0,0884
	5	0,00020	0,02253	1,000	-0,0755	0,0759
	6	-0,01890	0,02253	0,954	-0,0946	0,0568
2	1	-0,00020	0,02253	1,000	-0,0759	0,0755
	3	0,00816	0,02253	0,999	-0,0675	0,0838
	4	0,01255	0,02253	0,992	-0,0631	0,0882
	5	0,00000	0,02253	1,000	-0,0757	0,0757
	6	-0,01910	0,02253	0,952	-0,0948	0,0566
3	1	-0,00836	0,02253	0,999	-0,0840	0,0673
	2	-0,00816	0,02253	0,999	-0,0838	0,0675
	4	0,00439	0,02253	1,000	-0,0713	0,0801
	5	-0,00816	0,02253	0,999	-0,0838	0,0675
	6	-0,02726	0,02253	0,824	-0,1029	0,0484
4	1	-0,01275	0,02253	0,992	-0,0884	0,0629
	2	-0,01255	0,02253	0,992	-0,0882	0,0631
	3	-0,00439	0,02253	1,000	-0,0801	0,0713
	5	-0,01255	0,02253	0,992	-0,0882	0,0631
	6	-0,03165	0,02253	0,724	-0,1073	0,0440
5	1	-0,00020	0,02253	1,000	-0,0759	0,0755
	2	0,00000	0,02253	1,000	-0,0757	0,0757
	3	0,00816	0,02253	0,999	-0,0675	0,0838
	4	0,01255	0,02253	0,992	-0,0631	0,0882
	6	-0,01910	0,02253	0,952	-0,0948	0,0566
6	1	0,01890	0,02253	0,954	-0,0568	0,0946
	2	0,01910	0,02253	0,952	-0,0566	0,0948
	3	0,02726	0,02253	0,824	-0,0484	0,1029
	4	0,03165	0,02253	0,724	-0,0440	0,1073

5	0,01910	0,02253	0,952	-0,0566	0,0948
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DO

Tukey HSD^a

Perlakuan	N	Subset for alpha = 0.05 1
4	3	0,1015
3	3	0,1059
2	3	0,1141
5	3	0,1141
1	3	0,1143
6	3	0,1332
Sig.		0,724

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

1.9.3 TDS

Multiple Comparisons

Dependent Variable:

Tukey HSD

(I) Perlakuan		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-0,07428	0,06454	0,851	-0,2911	0,1425
	3	-0,18292	0,06454	0,118	-0,3997	0,0339
	4	-0,16713	0,06454	0,173	-0,3839	0,0497
	5	-.29619*	0,06454	0,006	-0,5130	-0,0794
	6	-.38626*	0,06454	0,001	-0,6031	-0,1695
2	1	0,07428	0,06454	0,851	-0,1425	0,2911
	3	-0,10864	0,06454	0,566	-0,3254	0,1082
	4	-0,09285	0,06454	0,705	-0,3096	0,1239
	5	-.22191*	0,06454	0,044	-0,4387	-0,0051
	6	-.31198*	0,06454	0,004	-0,5288	-0,0952
3	1	0,18292	0,06454	0,118	-0,0339	0,3997
	2	0,10864	0,06454	0,566	-0,1082	0,3254
	4	0,01578	0,06454	1,000	-0,2010	0,2326
	5	-0,11328	0,06454	0,525	-0,3301	0,1035
	6	-0,20334	0,06454	0,071	-0,4201	0,0135
4	1	0,16713	0,06454	0,173	-0,0497	0,3839
	2	0,09285	0,06454	0,705	-0,1239	0,3096
	3	-0,01578	0,06454	1,000	-0,2326	0,2010
	5	-0,12906	0,06454	0,396	-0,3459	0,0877
	6	-.21913*	0,06454	0,047	-0,4359	-0,0023
5	1	.29619*	0,06454	0,006	0,0794	0,5130
	2	.22191*	0,06454	0,044	0,0051	0,4387
	3	0,11328	0,06454	0,525	-0,1035	0,3301
	4	0,12906	0,06454	0,396	-0,0877	0,3459
	6	-0,09006	0,06454	0,729	-0,3069	0,1267
6	1	.38626*	0,06454	0,001	0,1695	0,6031
	2	.31198*	0,06454	0,004	0,0952	0,5288
	3	0,20334	0,06454	0,071	-0,0135	0,4201

4	.21913*	0,06454	0,047	0,0023	0,4359
5	0,09006	0,06454	0,729	-0,1267	0,3069

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

TDS

Tukey HSD^a

Perlakuan	N	Subset for alpha = 0.05		
		1	2	3
1	3	0,1458		
2	3	0,2201		
4	3	0,3129	0,3129	
3	3	0,3287	0,3287	0,3287
5	3		0,4420	0,4420
6	3			0,5320
Sig.		0,118	0,396	0,071

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

1.9.4 Jumlah Mikroba

Multiple Comparisons

Dependent Variable:
Tukey HSD

(I) Perlakuan		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-0,00535	0,03881	1,000	-0,1357	0,1250
	3	-0,02139	0,03881	0,993	-0,1517	0,1090
	4	-0,09091	0,03881	0,250	-0,2213	0,0394
	5	-.15508*	0,03881	0,017	-0,2854	-0,0247
	6	-.26203*	0,03881	0,000	-0,3924	-0,1317
2	1	0,00535	0,03881	1,000	-0,1250	0,1357
	3	-0,01604	0,03881	0,998	-0,1464	0,1143
	4	-0,08556	0,03881	0,303	-0,2159	0,0448
	5	-.14973*	0,03881	0,022	-0,2801	-0,0194
	6	-.25668*	0,03881	0,000	-0,3870	-0,1263
3	1	0,02139	0,03881	0,993	-0,1090	0,1517
	2	0,01604	0,03881	0,998	-0,1143	0,1464
	4	-0,06952	0,03881	0,505	-0,1999	0,0608
	5	-.13369*	0,03881	0,043	-0,2640	-0,0033
	6	-.24064*	0,03881	0,001	-0,3710	-0,1103
4	1	0,09091	0,03881	0,250	-0,0394	0,2213
	2	0,08556	0,03881	0,303	-0,0448	0,2159
	3	0,06952	0,03881	0,505	-0,0608	0,1999
	5	-0,06417	0,03881	0,583	-0,1945	0,0662
	6	-.17112*	0,03881	0,009	-0,3015	-0,0408
5	1	.15508*	0,03881	0,017	0,0247	0,2854
	2	.14973*	0,03881	0,022	0,0194	0,2801
	3	.13369*	0,03881	0,043	0,0033	0,2640
	4	0,06417	0,03881	0,583	-0,0662	0,1945
	6	-0,10695	0,03881	0,134	-0,2373	0,0234
6	1	.26203*	0,03881	0,000	0,1317	0,3924
	2	.25668*	0,03881	0,000	0,1263	0,3870
	3	.24064*	0,03881	0,001	0,1103	0,3710
	4	.17112*	0,03881	0,009	0,0408	0,3015

5	0,10695	0,03881	0,134	-0,0234	0,2373
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*. The mean difference is significant at the 0.05 level.

Mikroba

Tukey HSD^a

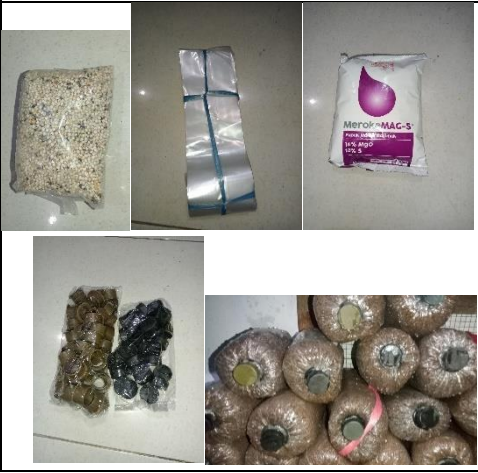
Perlakuan	N	Subset for alpha = 0.05		
		1	2	3
1	3	0,2299		
2	3	0,2353		
3	3	0,2513		
4	3	0,3209	0,3209	
5	3		0,3850	0,3850
6	3			0,4920
Sig.		0,250	0,583	0,134

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 2. Dokumentasi Cara Kerja Dan Hasil

2.1 Dokumentasi Cara Kerja

Foto	Keterangan
	Isolat <i>Trametes versicolor</i>
	Inokulasi isolat ke media F1
	Pembuatan baglog jamur

 	Inokulasi media F1 ke baglag
 	Hasil budidaya jamur selama 2 bulan
 	Jamur dikeringkan dan di haluskan
  	Pengayakan dengan ukuran 0,180 mm dan timbang hasil
    	Proses Ekstraksi Kitosan



Pembuatan membran filter



Uji Parameter Air

2.2 Dokumentasi Uji Parameter

2.2.1 pH

Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3
Awal			
K2V1			
K2V2			
K2V3			
K3V1			
K3V2			

K3V3			
------	---	--	---

2.2.1 DO

Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3
Awal			
K2V1			
K2V2			
K2V3			
K3V1			

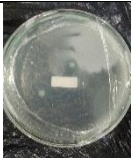
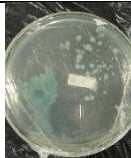
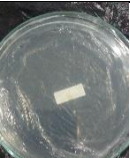
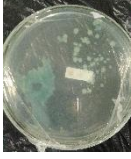
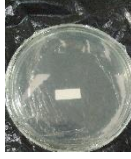
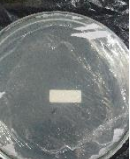
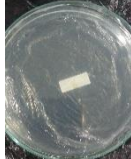
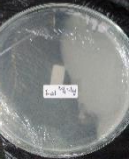
K3V2			
K3V3			

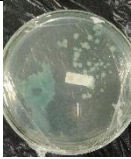
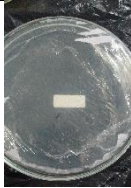
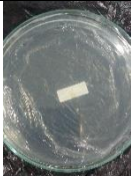
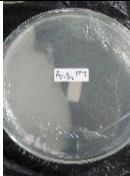
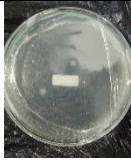
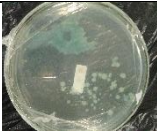
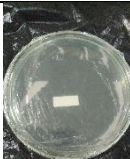
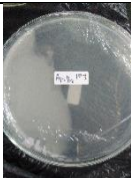
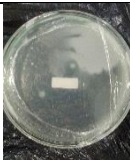
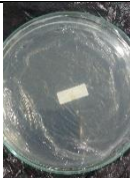
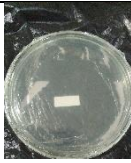
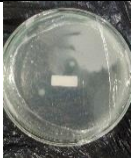
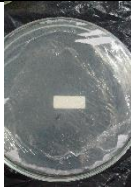
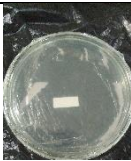
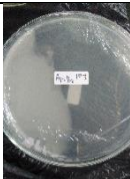
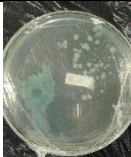
2.2.3 TDS

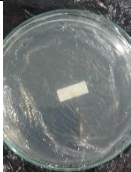
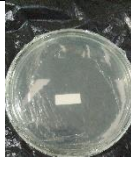
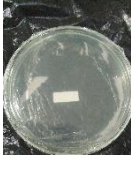
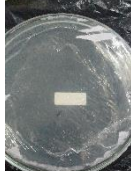
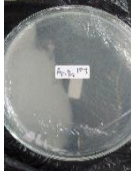
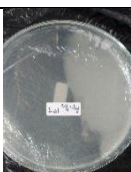
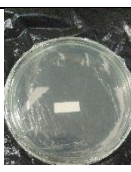
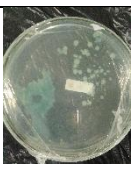
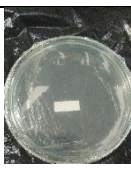
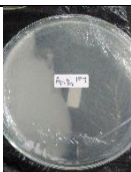
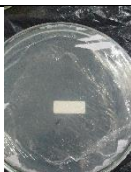
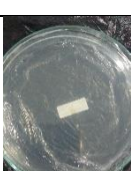
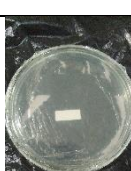
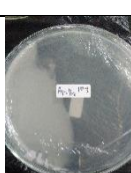
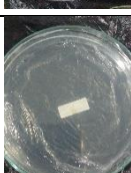
Perlakuan	Ulangan 1	Ulangan 2	Ulangan 3
Awal			
K2V1			
K2V2			
K2V3			

K3V1			
K3V2			
K3V3			

2.2.4 Jumlah Mikroba

Perlakuan	Ulangan	10^{-3}	10^{-4}	10^{-5}
Awal				
K2V1	1			
	2			
	3			

K2V2	1			
	2			
	3			
K2V3	1			
	2			
	3			
K3V1	1			
	2			

	3							
K3V2	1							
	2							
	3							
K3V3	1							
	2							
	3							

Lampiran 3. Jadwal Penelitian**JADWAL PELAKSANAAN PENELITIAN**

No	Kegiatan	Februari 2024	Maret 2024	April 2024	Mei 2024	Juni 2024	Juli 2024	Agustus 2024
1.	Penyusunan Proposal							
2.	Budidaya jamur							
3.	Pembuatan perlakuan							
4.	Pengujian perlakuan							
5.	Pengujian aktivitas							
6.	Analisis data							
7.	Penyusunan hasil dan pembahasan							