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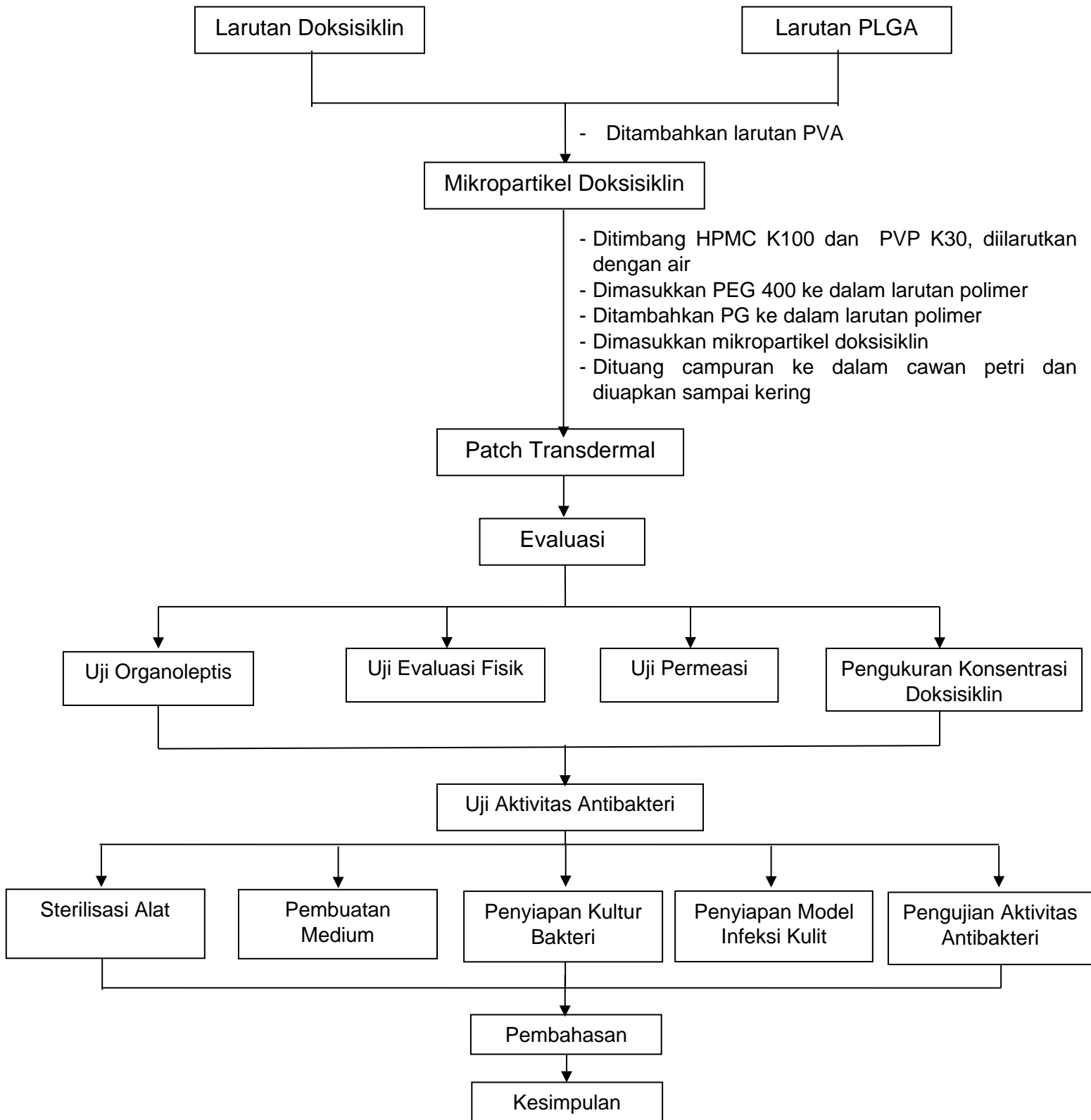
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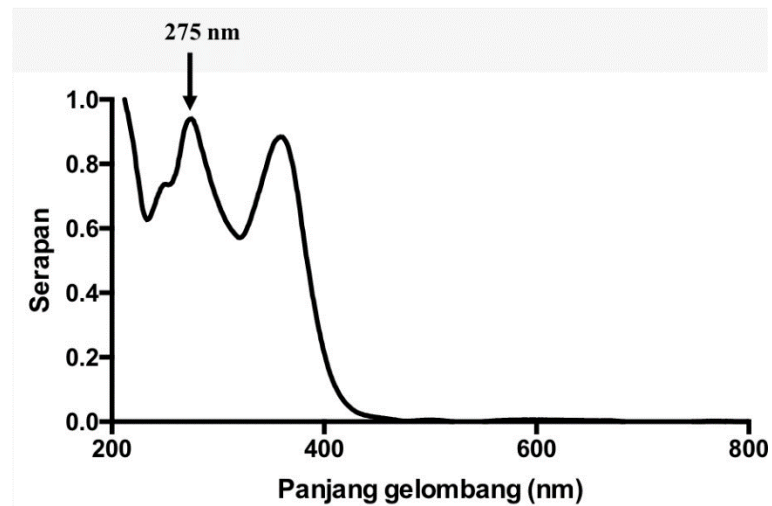
LAMPIRAN

Lampiran 1. Skema Kerja Penelitian

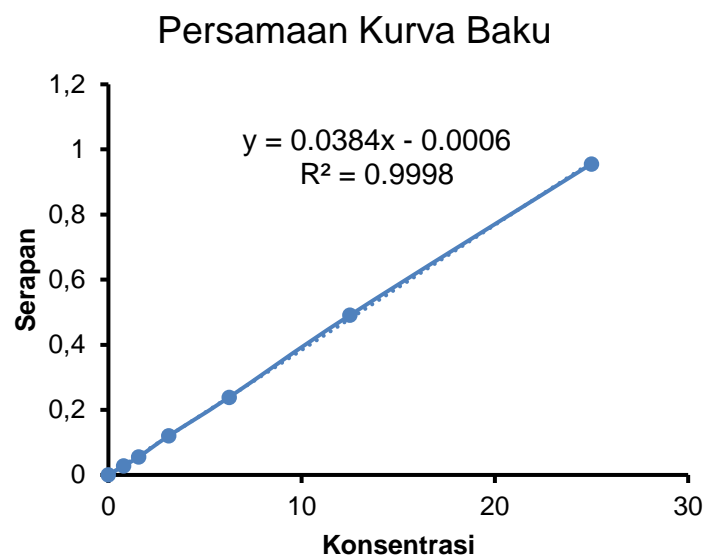


Lampiran 2. Panjang Gelombang Maksimum dan Kurva Baku

Lampiran 2.1. Panjang Gelombang Maksimum

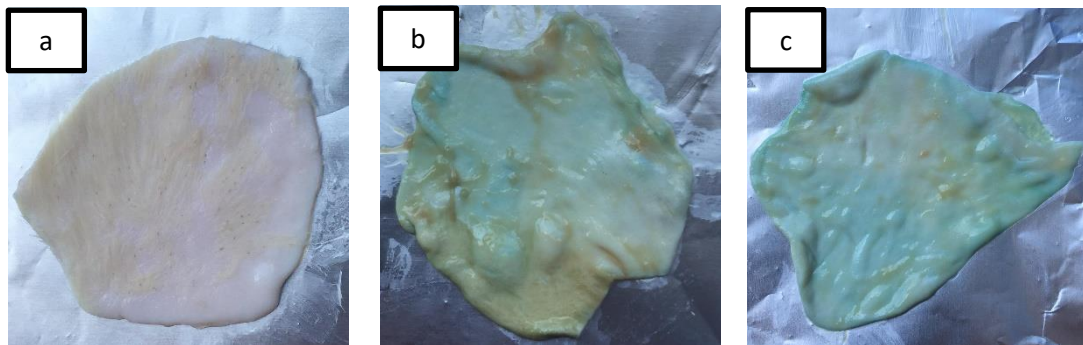


Lampiran 2.2. Kurva Baku



Gambar 27. Persamaan kurva baku

Lampiran 3. Gambar Penelitian



Gambar 28. Kulit (a) sebelum terinfeksi, (b) terinfeksi *S.aureus*, (c) terinfeksi *P. aeruginosa*



Gambar 29. Aparatus difusi sel Franz

Lampiran 4. Perhitungan

a. Uji Permeasi Patch

Persamaan: $y = 0,0384x - 0,0006$

dimana: $y = \text{serapan}$; $x = \text{konsentrasi}$

Pada F2 Replikasi 1 Jam 8, diperoleh serapan = 0,183

Sehingga, untuk mendapatkan konsentrasi:

$$0,183 = 0,0384x - 0,0006$$

$$x = \frac{0,183 + 0,0006}{0,0384}$$

$$x = 4,78 \mu\text{g/mL}$$

Konsentrasi dalam 1 mL = 4,78 μg

$$\text{Konsentrasi dalam 28 mL} = \frac{4,78125 \mu\text{g} \times 28 \text{ mL}}{1000} = 0,13 \text{ mg}$$

Jumlah terpermeasi = Konsentrasi dalam 28 mL + Faktor koreksi

$$= 0,133875 + 0$$

$$= 0,13 \text{ mg}$$

$$\text{Persen permeasi} = \frac{\text{Jumlah yang terpermeasi}}{\text{Jumlah total mikropartikel DOX}} \times 100\%$$

$$= \frac{0,133875}{2,5} \times 100\%$$

$$= 5,35\%$$

b. Uji Retensi Kornea

Persamaan: $y = 0,0384x - 0,0006$

dimana: $y = \text{serapan}$; $x = \text{konsentrasi}$

Pada F2 Replikasi 1, diperoleh serapan = 0,091

Sehingga, untuk mendapatkan konsentrasi:

$$0,091 = 0,0384x - 0,0006$$

$$x = \frac{0,091 + 0,0006}{0,0384}$$

$$x = 2,38541667 \mu\text{g/mL}$$

$$\text{Jumlah mikropartikel DOX yang terdeposisi} = \frac{2,38541667}{1000} \times 50 \text{ mL} = 0,12 \text{ mg}$$

$$\text{Persen retensi} = \frac{\text{Jumlah yang terdeposisi}}{\text{Jumlah total mikropartikel DOX}} \times 100\%$$

$$= \frac{0,12}{2,5} \times 100\%$$

$$= 4,77\%$$

c. % Aktivitas Antimikroba

$$\text{Jumlah bakteri pada model infeksi} = 1,57 \times 10^{10}$$

$$\text{Pada F1 Replikasi 1, diperoleh jumlah bakteri} = 1,28 \times 10^{10}$$

$$\% \text{ aktivitas} = \frac{\text{Jumlah bakteri pada model infeksi} - \text{jumlah bakteri pada replikasi}}{\text{Jumlah bakteri pada model infeksi}} \times 100\%$$

$$= \frac{15700000000 - 12800000000}{15700000000} \times 100\%$$

$$= 18,47\%$$

Lampiran 5. Tabel hasil evaluasi

Lampiran 5.1. Tabel Kurva Baku

Konsentrasi	Serapan 1	Serapan 2	Serapan 3	Rata-rata	SD
0	0	0	0	0	0
0.78125	0.030	0.024	0.029	0.03	0.003
1.5625	0.057	0.052	0.055	0.05	0.003
3.125	0.119	0.127	0.114	0.12	0.007
6.25	0.246	0.238	0.232	0.24	0.007
12.5	0.488	0.492	0.493	0.49	0.002
25	0.951	0.980	0.935	0.96	0.023

Lampiran 5.2. Bobot Patch Mikropartikel DOX

Formula	Bobot Patch			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
1	2.81	2.79	2.83	2.81	0.02
2	3.61	3.62	3.59	3.61	0.02
3	4.13	4.18	4.21	4.17	0.04
4	4.61	4.72	4.59	4.64	0.07

Lampiran 5.3. Bobot Patch DOX Murni

Formula	Bobot Patch			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
1	2.41	2.47	2.39	2.42	0.04
2	3.34	3.41	3.32	3.36	0.05
3	3.82	3.88	3.84	3.85	0.03
4	4.35	4.31	4.38	4.35	0.04

Lampiran 5.4. Keseragaman Bobot Patch Mikropartikel DOX

Mikropartikel DOX	Keseragaman Bobot			
	Replikasi	F1	F2	F3
1	2.81	3.61	4.13	4.61
2	2.79	3.62	4.18	4.72
3	2.83	3.59	4.21	4.59
4	2.82	3.62	4.18	4.69
5	2.79	3.58	4.22	4.71
6	2.84	3.64	4.21	4.59
7	2.85	3.59	4.2	4.63
8	2.79	3.58	4.19	4.66
9	2.84	3.61	4.23	4.62
10	2.81	3.57	4.19	4.71
Rata-rata	2.82	3.60	4.19	4.65
SD	0.02	0.02	0.03	0.05

Lampiran 5.5. Keseragaman Bobot Patch DOX Murni

DOX Murni	Keseragaman Bobot			
	Replikasi	F1	F2	F3
1	2.41	3.34	3.82	4.35
2	2.47	3.41	3.88	4.31
3	2.39	3.32	3.84	4.38
4	2.41	3.42	3.87	4.41
5	2.45	3.51	3.81	4.39
6	2.43	3.48	3.84	4.35
7	2.44	3.47	3.87	4.38
8	2.46	3.39	3.82	4.4
9	2.47	3.41	3.89	4.33
10	2.39	3.4	3.78	4.41
Rata-rata	2.43	3.42	3.84	4.37
SD	0.03	0.06	0.04	0.03

Lampiran 5.6. Ketebalan Patch Mikropartikel DOX

Formula	Ketebalan Patch			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
1	0.29	0.31	0.28	0.29	0.02
2	0.32	0.31	0.3	0.31	0.01

3	0.41	0.43	0.4	0.41	0.02
4	0.52	0.53	0.55	0.53	0.02

Lampiran 5.7. Ketebalan Patch DOX Murni

Formula	Ketebalan Patch			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
1	0.23	0.21	0.24	0.23	0.02
2	0.29	0.27	0.26	0.27	0.02
3	0.34	0.32	0.36	0.34	0.02
4	0.45	0.47	0.44	0.45	0.02

Lampiran 5.8. Kelembaban Patch Mikropartikel DOX

Formula	% Kelembaban Patch			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
1	1.08	1.09	1.07	1.08	0.01
2	2.27	2.26	3.46	2.66	0.69
3	5.63	5.03	5.51	5.39	0.32
4	6.71	8.76	6.99	7.49	1.11

Lampiran 5.9. Kelembaban Patch DOX Murni

Formula	% Kelembaban Patch			Rata-rata	SD
	Replikasi 1	Replikasi 2	Replikasi 3		
1	1.69	1.23	1.27	1.40	0.25
2	3.09	3.65	3.43	3.39	0.28
3	4.66	4.3	4.63	4.53	0.20
4	8.48	8.29	6.57	7.78	1.05

Lampiran 5.10. Kandungan Mikropartikel DOX dalam Patch

Formula	Replikasi	Serapan	Kons (ug/ml)	F.Pengenceran	Kons sebenarnya (ug/ml)	Jumlah DOX dalam 1x1 cm (ug) = dalam 10 mL	Jumlah DOX dalam 1x1 cm (mg) = dalam 10 mL	Rata-rata	SD
F1	1	0.445	11.62	100	1161.64	11616.41	11.62	11.55	0.16
	2	0.436	11.37	100	1137.42	11374.22	11.37		
	3	0.447	11.66	100	1166.48	11664.84	11.66		
F2	1	0.448	11.69	100	1168.91	11689.06	11.69	11.71	0.18
	2	0.443	11.54	100	1154.38	11543.75	11.54		
	3	0.457	11.91	100	1190.70	11907.03	11.91		
F3	1	0.457	11.91	100	1190.70	11907.03	11.91	11.74	0.15
	2	0.445	11.62	100	1161.64	11616.41	11.62		
	3	0.448	11.69	100	1168.91	11689.06	11.69		
F4	1	0.448	11.69	100	1168.91	11689.06	11.69	11.73	0.14

2	0.445	11.62	100	1161.64	11616.41	11.62
3	0.456	11.88	100	1188.28	11882.81	11.88

Lampiran 5.11. Kandungan DOX Murni dalam Patch

Formula	Replikasi	Serapan	Kons (ug/ml)	F.Pengemceran	Kons sebenarnya (ug/ml)	Jumlah DOX dalam 1x1 cm (ug) = dalam 10 mL	Jumlah DOX dalam 1x1 cm (mg) = dalam 10 mL	Rata-rata	SD
F1	1	0.464	12.09	100	1209.06	12090.63	12.09	11.86	0.20
	2	0.452	11.79	100	1178.65	11786.46	11.79		
	3	0.449	11.71	100	1170.83	11708.33	11.71		
F2	1	0.458	11.94	100	1194.06	11940.63	11.94	11.87	0.14
	2	0.459	11.97	100	1196.88	11968.75	11.97		
	3	0.449	11.71	100	1170.83	11708.33	11.71		
F3	1	0.458	11.94	100	1194.27	11942.71	11.94	12.07	0.12
	2	0.468	12.19	100	1219.06	12190.63	12.19		
	3	0.463	12.07	100	1206.56	12065.63	12.07		
F4	1	0.460	11.99	100	1199.06	11990.63	11.99	12.05	0.05
	2	0.463	12.07	100	1206.56	12065.63	12.07		
	3	0.464	12.09	100	1209.06	12090.63	12.09		

(b) Formula 2

Jam	Replikasi	Serapan	Konsentrasi ($\mu\text{g/ml}$)	1 ml (μg)	28 ml (mg)	Faktor koreksi	Jumlah terpemeasi	% Permeasi	Rata-rata	SD
0.25	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
0.5	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
0.75	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
1	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
2	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
3	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
4	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		

	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
0.75	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
1	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
2	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
3	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
4	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
5	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
	1	0.000	0	0	0	0	0	0		
6	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
7	1	0.167	4.36	4.36	0.12	0	0.12	4.89	5.02	0.132

	2	0.172	4.49	4.49	0.13	0	0.13	5.03		
	3	0.176	4.60	4.60	0.13	0	0.13	5.15		
8	1	0.198	5.17	5.17	0.14	0.004	0.15	5.97	5.91	0.179
	2	0.201	5.25	5.25	0.15	0.004	0.15	6.06		
	3	0.189	4.94	4.94	0.14	0.005	0.14	5.71		
24	1	0.312	8.14	8.14	0.23	0.010	0.24	9.50	9.33	0.206
	2	0.298	7.78	7.78	0.22	0.010	0.23	9.10		
	3	0.308	8.04	8.04	0.23	0.010	0.23	9.38		

(d) Formula 4

Jam	Replikasi	Serapan	Konsentrasi ($\mu\text{g/ml}$)	1 ml (μg)	28 ml (mg)	Faktor koreksi	Jumlah terpemeasi	% Permeasi	Rata-rata	SD
0.25	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		
	3	0	0	0	0	0	0	0		
0.5	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		
	3	0	0	0	0	0	0	0		
0.75	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		
	3	0	0	0	0	0	0	0		
1	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		

	3	0	0	0	0	0	0	0		
2	1	0	0	0	0	0	0	0		
	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0		
3	1	0	0	0	0	0	0	0		
	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0		
4	1	0	0	0	0	0	0	0		
	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0		
5	1	0	0	0	0	0	0	0		
	2	0	0	0	0	0	0	0	0	0
	3	0	0	0	0	0	0	0		
6	1	0.134	3.51	3.51	0.10	0	0.10	3.93		
	2	0.152	3.97	3.97	0.11	0	0.11	4.45	4.179	0.263
	3	0.142	3.71	3.71	0.10	0	0.10	4.16		
7	1	0.187	4.89	4.89	0.14	0.004	0.14	5.61		
	2	0.188	4.91	4.91	0.14	0.004	0.14	5.66	5.738	0.178
	3	0.198	5.17	5.17	0.14	0.004	0.15	5.94		
8	1	0.213	5.56	5.56	0.16	0.008	0.16	6.57		
	2	0.243	6.34	6.34	0.18	0.009	0.19	7.46	7.055	0.453
	3	0.232	6.06	6.06	0.17	0.009	0.18	7.14		
24	1	0.465	12.13	12.13	0.34	0.014	0.35	14.14		
	2	0.498	12.98	12.98	0.36	0.015	0.38	15.15	14.664	0.508

3	0.483	12.59	12.59	0.35	0.015	1	0.37
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(b) Formula 2

Jam	Replikasi	Serapan	Konsentrasi ($\mu\text{g/ml}$)	1 ml (μg)	28 ml (mg)	Faktor koreksi	Jumlah terpemeasi	% Permeasi	Rata-rata	SD
0.25	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
0.5	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
0.75	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
1	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
2	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
3	1	0.000	0	0	0	0	0	0	0	0
	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
4	1	0.082	2.15	2.15	0.06	0	0.30	30.11	29.872	0.759
	2	0.079	2.07	2.07	0.06	0	0.29	29.02		
	3	0.083	2.18	2.18	0.06	0	0.30	30.48		

	2	0.000	0	0	0	0	0	0		
	3	0.000	0	0	0	0	0	0		
0.75	1	0.000	0	0	0	0	0	0		
	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
1	1	0.000	0	0	0	0	0	0		
	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
2	1	0.000	0	0	0	0	0	0		
	2	0.000	0	0	0	0	0	0	0	0
	3	0.000	0	0	0	0	0	0		
3	1	0.070	1.84	1.84	0.05	0	0.10	10.30		
	2	0.087	2.28	2.28	0.06	0	0.13	12.78	12.14	1.63
	3	0.091	2.39	2.39	0.07	0	0.13	13.36		
4	1	0.137	3.58	3.58	0.10	0.002	0.51	51.06		
	2	0.132	3.45	3.45	0.10	0.002	0.49	49.46	50.82	1.26
	3	0.139	3.63	3.63	0.10	0.002	0.52	51.95		
5	1	0.279	7.28	7.28	0.20	0.005	1.05	104.61		
	2	0.312	8.15	8.15	0.23	0.006	1.17	116.94	106.18	10.07
	3	0.257	6.71	6.71	0.19	0.006	0.97	96.99		
6	1	0.573	14.93	14.93	0.42	0.013	2.15	215.41		
	2	0.646	16.85	16.85	0.47	0.014	2.43	242.79	238.54	21.33
	3	0.688	17.93	17.93	0.50	0.013	2.57	257.43		
7	1	0.795	20.72	20.72	0.58	0.028	3.04	303.85	269.35	30.43

	2	0.665	17.32	17.32	0.49	0.031	2.58	257.91		
	3	0.633	16.50	16.50	0.46	0.031	2.46	246.30		
8	1	0.351	9.15	9.15	0.26	0.048	3.05	304.50	343.38	58.35
	2	0.366	9.54	9.54	0.27	0.048	3.15	315.17		
	3	0.498	12.98	12.98	0.36	0.047	4.10	410.47		
24	1	0.369	9.63	9.63	0.27	0.057	3.27	327.05	376.26	48.23
	2	0.439	11.45	11.45	0.32	0.058	3.78	378.29		
	3	0.498	12.98	12.98	0.36	0.060	4.23	423.45		

(d) Formula 4

Jam	Replikasi	Serapan	Konsentrasi ($\mu\text{g/ml}$)	1 ml (μg)	28 ml (mg)	Faktor koreksi	Jumlah terpemeasi	% Permeasi	Rata-rata	SD
0.25	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		
	3	0	0	0	0	0	0	0		
0.5	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		
	3	0	0	0	0	0	0	0		
0.75	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		
	3	0	0	0	0	0	0	0		
1	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	0	0	0	0		

	3	0	0	0	0	0	0	0		
2	1	0.087	2.28	2.28	0.06	0	0.06	6.39	6.53	0.146
	2	0.091	2.39	2.39	0.07	0	0.07	6.68		
	3	0.089	2.33	2.33	0.07	0	0.07	6.53		
3	1	0.095	2.48	2.48	0.07	0.002	0.14	14.33	16.83	2.203
	2	0.117	3.07	3.07	0.09	0.002	0.18	17.69		
	3	0.123	3.21	3.21	0.09	0.002	0.18	18.47		
4	1	0.185	4.83	4.83	0.14	0.005	0.70	70.00	72.56	6.362
	2	0.178	4.65	4.65	0.13	0.005	0.68	67.88		
	3	0.211	5.50	5.50	0.15	0.006	0.80	79.81		
5	1	0.424	11.06	11.06	0.31	0.010	1.60	159.56	162.05	15.190
	2	0.475	12.38	12.38	0.35	0.010	1.78	178.34		
	3	0.391	10.20	10.20	0.29	0.011	1.48	148.26		
6	1	0.871	22.69	22.69	0.64	0.021	3.28	327.97	363.24	32.551
	2	0.982	25.60	25.60	0.72	0.022	3.70	369.62		
	3	1.046	27.25	27.25	0.76	0.021	3.92	392.13		
7	1	1.328	34.59	34.59	0.97	0.043	5.06	505.88	448.22	50.841
	2	1.110	28.92	28.92	0.81	0.048	4.29	428.94		
	3	1.057	27.54	27.54	0.77	0.048	4.10	409.83		
8	1	0.586	15.27	15.27	0.43	0.078	5.05	505.41	570.23	97.601
	2	0.611	15.92	15.92	0.45	0.077	5.23	522.80		
	3	0.831	21.66	21.66	0.61	0.076	6.82	682.48		
24	1	0.616	16.07	16.07	0.45	0.093	5.43	543.04	625.13	80.592
	2	0.733	19.12	19.12	0.54	0.093	6.28	628.20		

3	0.831	21.66	21.66	0.61	0.098	7.04	704.14
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Lampiran 5.14. Hasil Uji Retensi Patch Mikropartikel DOX

Formula	Replikasi	Serapan	Konsentrasi (µg/ml)	Jumlah mikropartikel DOX terdepositasi setelah 24 jam (mg)	%Retensi	Rata-rata	SD
F1	1	0	0	0	0.00	0	0
	2	0	0	0	0.00		
	3	0	0	0	0.00		
F2	1	0.091	2.39	0.12	4.77	4.74	0.16
	2	0.093	2.44	0.12	4.88		
	3	0.087	2.28	0.11	4.56		
F3	1	0.874	22.78	1.14	45.55	43.97	3.63
	2	0.764	19.91	1.00	39.82		
	3	0.893	23.27	1.16	46.54		
F4	1	0.456	11.89	0.59	23.78	25.24	1.49
	2	0.513	13.38	0.67	26.75		
	3	0.483	12.59	0.63	25.19		

Lampiran 5.15. Hasil Uji Retensi Patch DOX Murni

Formula	Replikasi	Serapan	Konsentrasi (µg/ml)	Jumlah DOX murni terdeposisi setelah 24 jam (mg)	%Retensi	Rata-rata	SD
F1	1	0	0	0	0.00	0	0
	2	0	0	0	0.00		
	3	0	0	0	0.00		
F2	1	0.043	1.14	0.06	5.68	6.28	0.54
	2	0.051	1.34	0.07	6.72		
	3	0.049	1.29	0.06	6.46		
F3	1	0.061	1.60	0.08	8.02	7.80	0.87
	2	0.052	1.37	0.07	6.85		
	3	0.065	1.71	0.09	8.54		
F4	1	0.048	1.27	0.06	6.33	7.59	1.75
	2	0.052	1.37	0.07	6.85		
	3	0.073	1.92	0.10	9.58		

Lampiran 5.16. Hasil Uji Aktivitas Antimikroba S.aureus

(a) Jumlah bakteri pada model infeksi kulit

Replikasi	10 ⁸	Jumlah Bakteri	Rata-rata
1	132	1.32 x 10 ¹⁰	1.57 x 10 ¹⁰
2	165	1.65 x 10 ¹⁰	
3	174	1.74 x 10 ¹⁰	

b) Patch mikropartikel DOX setelah diaplikasikan

Formula	Replikasi	10 ⁸	Jumlah Bakteri	Rata-rata	SD
F1	1	128	1.28 x 10 ¹⁰	1,45 x 10 ¹⁰	0.14 x 10 ¹⁰
	2	155	1.55 x 10 ¹⁰		
	3	152	1.52 x 10 ¹⁰		
F2	1	98	9.8 x 10 ¹⁰	9.9 x 10 ¹⁰	0.26 x 10 ¹⁰
	2	97	9.7 x 10 ¹⁰		
	3	102	10.2 x 10 ¹⁰		
F3	1	26	2.6 x 10 ¹⁰	2.6 x 10 ¹⁰	0.2 x 10 ¹⁰
	2	28	2.8 x 10 ¹⁰		
	3	24	2.4 x 10 ¹⁰		
F4	1	88	8.8 x 10 ¹⁰	7.4 x 10 ¹⁰	1.21 x 10 ¹⁰
	2	68	6.8 x 10 ¹⁰		
	3	66	6.6 x 10 ¹⁰		

c) Patch DOX murni setelah diaplikasikan

Formula	Replikasi	10 ⁸	Jumlah Bakteri	Rata-rata	SD
F1	1	132	1.32 x 10 ¹⁰	1,45 x 10 ¹⁰	0.11 x 10 ¹⁰
	2	149	1.49 x 10 ¹⁰		
	3	154	1.54 x 10 ¹⁰		
F2	1	108	1.08 x 10 ¹⁰	1.09 x 10 ¹⁰	0.08 x 10 ¹⁰
	2	119	1.19 x 10 ¹⁰		
	3	102	1.02 x 10 ¹⁰		
F3	1	105	10.5 x 10 ¹⁰	9.46 x 10 ¹⁰	0.92 x 10 ¹⁰
	2	87	8.7 x 10 ¹⁰		
	3	92	9.2 x 10 ¹⁰		
F4	1	105	10.5 x 10 ¹⁰	10.2 x 10 ¹⁰	0.3 x 10 ¹⁰
	2	102	10.2 x 10 ¹⁰		
	3	99	9.9 x 10 ¹⁰		

d) Aktivitas Antimikroba patch mikropartikel DOX

Formula	Replikasi	% Aktivitas	Rata-rata	SD
F1	1	18.47	7.64%	9.43
	2	1.27		
	3	3.18		
F2	1	37.58	36.94%	1.69
	2	38.22		

	3	35.03		
F3	1	83.44	83.44%	1.27
	2	82.17		
	3	84.71		
F4	1	43.95	52.87%	7.75
	2	56.69		
	3	57.96		

e) Aktivitas Antimikroba patch DOX murni

Formula	Replikasi	% Aktivitas	Rata-rata	SD
F1	1	15.92	7.64%	7.35
	2	5.10		
	3	1.91		
F2	1	31.21	30.15%	5.49
	2	24.20		
	3	35.03		
F3	1	33.12	39.70%	5.92
	2	44.59		
	3	41.40		
F4	1	33.12	35.03%	1.91
	2	35.03		
	3	36.94		

Lampiran 5.17. Hasil Uji Aktivitas Antimikroba *P.aeruginosa*

(a) Jumlah bakteri pada model infeksi kulit

Replikasi	10 ⁸	Jumlah Bakteri	Rata-rata
1	148	1.48 x 10 ¹⁰	1.64 x 10 ¹⁰
2	178	1.78 x 10 ¹⁰	
3	166	1.66 x 10 ¹⁰	

(b) Patch mikropartikel DOX setelah diaplikasikan

Formula	Replikasi	10 ⁸	Jumlah Bakteri	Rata-rata	SD
F1	1	157	1.57 x 10 ¹⁰	1,47 x 10 ¹⁰	0.11 x 10 ¹⁰
	2	148	1.48 x 10 ¹⁰		
	3	135	1.35 x 10 ¹⁰		
F2	1	102	1.02 x 10 ¹⁰	1.1 x 10 ¹⁰	0.09 x 10 ¹⁰
	2	110	1.10 x 10 ¹⁰		
	3	121	1.21 x 10 ¹⁰		
F3	1	32	3.2 x 10 ¹⁰	3.56 x 10 ¹⁰	0.47 x 10 ¹⁰
	2	34	3.4 x 10 ¹⁰		
	3	41	4.1 x 10 ¹⁰		
F4	1	92	9.2 x 10 ¹⁰	6.54 x 10 ¹⁰	4.78 x 10 ¹⁰
	2	94	9.4 x 10 ¹⁰		
	3	102	1.02 x 10 ¹⁰		

(c) Patch DOX murni setelah diaplikasikan

Formula	Replikasi	10 ⁸	Jumlah Bakteri	Rata-rata	SD
F1	1	161	1.61 x 10 ¹⁰	1,56 x 10 ¹⁰	0.04 x 10 ¹⁰
	2	152	1.52 x 10 ¹⁰		
	3	156	1.56 x 10 ¹⁰		
F2	1	121	1.21 x 10 ¹⁰	1.16 x 10 ¹⁰	0.06 x 10 ¹⁰
	2	118	1.18 x 10 ¹⁰		
	3	109	1.09 x 10 ¹⁰		
F3	1	102	1.02 x 10 ¹⁰	3.95 x 10 ¹⁰	5.06 x 10 ¹⁰
	2	98	9.8 x 10 ¹⁰		
	3	105	1.05 x 10 ¹⁰		
F4	1	99	9.9 x 10 ¹⁰	4.01 x 10 ¹⁰	5.10 x 10 ¹⁰
	2	105	1.05 x 10 ¹⁰		
	3	107	1.07 x 10 ¹⁰		

(d) Aktivitas Antimikroba patch mikropartikel DOX

Formula	Replikasi	% Aktivitas	Rata-rata	SD
F1	1	4.27	10.57%	6.74
	2	9.76		
	3	17.68		
F2	1	37.80	32.32%	5.81
	2	32.93		

	3	26.22		
F3	1	80.49	78.25%	2.88
	2	79.27		
	3	75.00		
F4	1	43.90	41.46%	3.22
	2	42.68		
	3	37.80		

(e) Aktivitas Antimikroba patch DOX murni

Formula	Replikasi	% Aktivitas	Rata-rata	SD
F1	1	1.91	4.88%	2.87
	2	7.64		
	3	5.10		
F2	1	27.39	30.57%	3.97
	2	29.30		
	3	35.03		
F3	1	39.49	39.70%	2.23
	2	42.04		
	3	37.58		
F4	1	41.40	38.43%	2.65
	2	37.58		
	3	36.31		

Lampiran 6. Data Hasil Analisis Statistika

Lampiran 6.1. Keseragaman Bobot Patch

ANOVA

Mikropartikel DOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	18.877	3	6.292	5670.124	.000
Within Groups	.040	36	.001		
Total	18.917	39			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Mikropartikel DOX

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-.78400*	.01490	.000	-.8241	-.7439
	FORMULA 3	-1.37700*	.01490	.000	-1.4171	-1.3369
	FORMULA 4	-1.83600*	.01490	.000	-1.8761	-1.7959
FORMULA 2	FORMULA 1	.78400*	.01490	.000	.7439	.8241
	FORMULA 3	-.59300*	.01490	.000	-.6331	-.5529

	FORMULA 4	-1.05200*	.01490	.000	-1.0921	-1.0119
FORMULA 3	FORMULA 1	1.37700*	.01490	.000	1.3369	1.4171
	FORMULA 2	.59300*	.01490	.000	.5529	.6331
	FORMULA 4	-.45900*	.01490	.000	-.4991	-.4189
FORMULA 4	FORMULA 1	1.83600*	.01490	.000	1.7959	1.8761
	FORMULA 2	1.05200*	.01490	.000	1.0119	1.0921
	FORMULA 3	.45900*	.01490	.000	.4189	.4991

ANOVA

DOX Murni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20.226	3	6.742	3898.273	.000
Within Groups	.062	36	.002		
Total	20.288	39			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DOX Murni

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-.98300*	.01860	.000	-1.0331	-.9329
	FORMULA 3	-1.41000*	.01860	.000	-1.4601	-1.3599

	FORMULA 4	-1.93900 [*]	.01860	.000	-1.9891	-1.8889
FORMULA 2	FORMULA 1	.98300 [*]	.01860	.000	.9329	1.0331
	FORMULA 3	-.42700 [*]	.01860	.000	-.4771	-.3769
	FORMULA 4	-.95600 [*]	.01860	.000	-1.0061	-.9059
FORMULA 3	FORMULA 1	1.41000 [*]	.01860	.000	1.3599	1.4601
	FORMULA 2	.42700 [*]	.01860	.000	.3769	.4771
	FORMULA 4	-.52900 [*]	.01860	.000	-.5791	-.4789
FORMULA 4	FORMULA 1	1.93900 [*]	.01860	.000	1.8889	1.9891
	FORMULA 2	.95600 [*]	.01860	.000	.9059	1.0061
	FORMULA 3	.52900 [*]	.01860	.000	.4789	.5791

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
Mikropartikel DOX	Equal variances assumed	.000	1.000	-77.968	18	.000	-.78400	.01006	-.80513	-.76287

	Equal variances not assumed			-77.968	17.997	.000	-.78400	.01006	-.80513	-.76287
DOX Murni	Equal variances assumed	2.041	.170	-46.391	18	.000	-.98300	.02119	-1.02752	-.93848
	Equal variances not assumed			-46.391	13.512	.000	-.98300	.02119	-1.02860	-.93740

Lampiran 6.2. Ketebalan Patch

ANOVA

Mikropartikel DOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.110	3	.037	184.042	.000
Within Groups	.002	8	.000		
Total	.112	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Mikropartikel DOX

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-.01667	.01155	.510	-.0536	.0203
	FORMULA 3	-.12000*	.01155	.000	-.1570	-.0830
	FORMULA 4	-.24000*	.01155	.000	-.2770	-.2030
FORMULA 2	FORMULA 1	.01667	.01155	.510	-.0203	.0536
	FORMULA 3	-.10333*	.01155	.000	-.1403	-.0664
	FORMULA 4	-.22333*	.01155	.000	-.2603	-.1864
FORMULA 3	FORMULA 1	.12000*	.01155	.000	.0830	.1570
	FORMULA 2	.10333*	.01155	.000	.0664	.1403

	FORMULA 4	-.12000*	.01155	.000	-.1570	-.0830
FORMULA 4	FORMULA 1	.24000*	.01155	.000	.2030	.2770
	FORMULA 2	.22333*	.01155	.000	.1864	.2603
	FORMULA 3	.12000*	.01155	.000	.0830	.1570

ANOVA

DOX Murni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.087	3	.029	105.535	.000
Within Groups	.002	8	.000		
Total	.089	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DOX Murni

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-.04667*	.01354	.036	-.0900	-.0033
	FORMULA 3	-.11333*	.01354	.000	-.1567	-.0700
	FORMULA 4	-.22667*	.01354	.000	-.2700	-.1833
FORMULA 2	FORMULA 1	.04667*	.01354	.036	.0033	.0900

	FORMULA 3	-.06667*	.01354	.005	-.1100	-.0233
	FORMULA 4	-.18000*	.01354	.000	-.2234	-.1366
FORMULA 3	FORMULA 1	.11333*	.01354	.000	.0700	.1567
	FORMULA 2	.06667*	.01354	.005	.0233	.1100
	FORMULA 4	-.11333*	.01354	.000	-.1567	-.0700
FORMULA 4	FORMULA 1	.22667*	.01354	.000	.1833	.2700
	FORMULA 2	.18000*	.01354	.000	.1366	.2234
	FORMULA 3	.11333*	.01354	.000	.0700	.1567

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
Mikropartikel DOX	Equal variances assumed	.727	.442	-1.581	4	.189	-.01667	.01054	-.04593	.01260
	Equal variances not assumed			-1.581	3.448	.200	-.01667	.01054	-.04788	.01454

DOX Murni	Equal variances assumed	.000	1.000	-3.742	4	.020	-.04667	.01247	-.08130	-.01204
	Equal variances not assumed			-3.742	4.000	.020	-.04667	.01247	-.08130	-.01204

Lampiran 6.3. Kelembaban Patch

ANOVA

Mikropartikel DOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	72.918	3	24.306	53.639	.000
Within Groups	3.625	8	.453		
Total	76.543	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Mikropartikel DOX

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-1.58333	.54963	.079	-3.3434	.1768
	FORMULA 3	-4.31000*	.54963	.000	-6.0701	-2.5499
	FORMULA 4	-6.40667*	.54963	.000	-8.1668	-4.6466
FORMULA 2	FORMULA 1	1.58333	.54963	.079	-.1768	3.3434
	FORMULA 3	-2.72667*	.54963	.005	-4.4868	-.9666

	FORMULA 4	-4.82333*	.54963	.000	-6.5834	-3.0632
FORMULA 3	FORMULA 1	4.31000*	.54963	.000	2.5499	6.0701
	FORMULA 2	2.72667*	.54963	.005	.9666	4.4868
	FORMULA 4	-2.09667*	.54963	.021	-3.8568	-.3366
FORMULA 4	FORMULA 1	6.40667*	.54963	.000	4.6466	8.1668
	FORMULA 2	4.82333*	.54963	.000	3.0632	6.5834
	FORMULA 3	2.09667*	.54963	.021	.3366	3.8568

ANOVA

DOX Murni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	64.254	3	21.418	66.334	.000
Within Groups	2.583	8	.323		
Total	66.837	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DOX Murni

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
FORMULA 1	FORMULA 2	-1.99333*	.46396	.011	-3.4791	-.5076

Mikropartikel DOX	Equal variances assumed	15.584	.017	-3.974	4	.016	-1.58333	.39839	-2.68943	-4.7724
	Equal variances not assumed			-3.974	2.001	.058	-1.58333	.39839	-3.29676	.13009
DOX Murni	Equal variances assumed	.002	.965	-9.081	4	.001	-1.99333	.21949	-2.60275	- 1.38392
	Equal variances not assumed			-9.081	3.959	.001	-1.99333	.21949	-2.60523	- 1.38144

Lampiran 6.4. Kandungan Obat

ANOVA

Mikropartikel DOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.072	3	.024	.959	.457
Within Groups	.201	8	.025		
Total	.273	11			

ANOVA

DOX Murni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.109	3	.036	1.842	.218
Within Groups	.158	8	.020		
Total	.266	11			

Lampiran 6.5. Permeasi Patch

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower				Upper
Mikropartikel DOX	Jam8 - Jam24	-.08667	.07114	.02054	-.13187	-.04147	-4.220	11	.001

Paired Samples Test

		Paired Differences				t	df	Sig. (2-tailed)	
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower				Upper
DOX Murni	Jam8 - Jam24	-.26750	.31046	.08962	-.46476	-.07024	-2.985	11	.012

Lampiran 6.6. Retensi Patch

ANOVA

MikropartikelDOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.304	3	.768	332.693	.000
Within Groups	.018	8	.002		
Total	2.322	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: MikropartikelDOX

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-.11667	.03923	.069	-.2423	.0090
	Formula 3	-1.10000 [*]	.03923	.000	-1.2256	-.9744
	Formula 4	-.63000 [*]	.03923	.000	-.7556	-.5044
Formula 2	Formula 1	.11667	.03923	.069	-.0090	.2423
	Formula 3	-.98333 [*]	.03923	.000	-1.1090	-.8577
	Formula 4	-.51333 [*]	.03923	.000	-.6390	-.3877

Formula 3	Formula 1	1.10000*	.03923	.000	.9744	1.2256
	Formula 2	.98333*	.03923	.000	.8577	1.1090
	Formula 4	.47000*	.03923	.000	.3444	.5956
Formula 4	Formula 1	.63000*	.03923	.000	.5044	.7556
	Formula 2	.51333*	.03923	.000	.3877	.6390
	Formula 3	-.47000*	.03923	.000	-.5956	-.3444

ANOVA

DOXMurni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.013	3	.004	29.569	.000
Within Groups	.001	8	.000		
Total	.014	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DOXMurni

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-.06333*	.00972	.001	-.0945	-.0322
	Formula 3	-.08000*	.00972	.000	-.1111	-.0489

MikropartikelDOX	Equal variances assumed	16.000	.016	-35.000	4	.000	-.11667	.00333	-.12592	-.10741
	Equal variances not assumed			-35.000	2.000	.001	-.11667	.00333	-.13101	-.10232
DOXMurni	Equal variances assumed	16.000	.016	-19.000	4	.000	-.06333	.00333	-.07259	-.05408
	Equal variances not assumed			-19.000	2.000	.003	-.06333	.00333	-.07768	-.04899

Lampiran 6.7. Aktivitas Antimikroba *S.aureus*

ANOVA

MikropartikelDOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8999.998	3	2999.999	78.241	.000
Within Groups	306.746	8	38.343		
Total	9306.745	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: MikropartikelDOX

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-29.30333*	5.05591	.002	-45.4941	-13.1125
	Formula 3	-75.80000*	5.05591	.000	-91.9908	-59.6092
	Formula 4	-45.22667*	5.05591	.000	-61.4175	-29.0359
Formula 2	Formula 1	29.30333*	5.05591	.002	13.1125	45.4941
	Formula 3	-46.49667*	5.05591	.000	-62.6875	-30.3059
	Formula 4	-15.92333	5.05591	.054	-32.1141	.2675
Formula 3	Formula 1	75.80000*	5.05591	.000	59.6092	91.9908

	Formula 2	46.49667*	5.05591	.000	30.3059	62.6875
	Formula 4	30.57333*	5.05591	.001	14.3825	46.7641
Formula 4	Formula 1	45.22667*	5.05591	.000	29.0359	61.4175
	Formula 2	15.92333	5.05591	.054	-.2675	32.1141
	Formula 3	-30.57333*	5.05591	.001	-46.7641	-14.3825

ANOVA

DOXMurni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1815.967	3	605.322	19.719	.000
Within Groups	245.578	8	30.697		
Total	2061.545	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DOXMurni

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-22.50333*	4.52381	.005	-36.9902	-8.0165
	Formula 3	-32.06000*	4.52381	.000	-46.5468	-17.5732

	Formula 4	-27.38667*	4.52381	.001	-41.8735	-12.8998
Formula 2	Formula 1	22.50333*	4.52381	.005	8.0165	36.9902
	Formula 3	-9.55667	4.52381	.228	-24.0435	4.9302
	Formula 4	-4.88333	4.52381	.711	-19.3702	9.6035
Formula 3	Formula 1	32.06000*	4.52381	.000	17.5732	46.5468
	Formula 2	9.55667	4.52381	.228	-4.9302	24.0435
	Formula 4	4.67333	4.52381	.736	-9.8135	19.1602
Formula 4	Formula 1	27.38667*	4.52381	.001	12.8998	41.8735
	Formula 2	4.88333	4.52381	.711	-9.6035	19.3702
	Formula 3	-4.67333	4.52381	.736	-19.1602	9.8135

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
MikropartikelDOX	Equal variances assumed	9.556	.037	-5.299	4	.006	-29.30333	5.52952	-44.65574	-13.95093
	Equal variances not assumed			-5.299	2.128	.030	-29.30333	5.52952	-51.77440	-6.83227

DOXMurni	Equal variances assumed	.488	.523	-4.250	4	.013	-22.50333	5.29439	-37.20291	-7.80375
	Equal variances not assumed			-4.250	3.704	.015	-22.50333	5.29439	-37.67714	-7.32953

Lampiran 6.8. Aktivitas Antimikroba *P.aeruginosa*

ANOVA

MikropartikelDOX

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7166.753	3	2388.918	97.522	.000
Within Groups	195.969	8	24.496		
Total	7362.722	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: MikropartikelDOX

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-21.74667 [*]	4.04113	.003	-34.6878	-8.8055
	Formula 3	-67.68333 [*]	4.04113	.000	-80.6245	-54.7422
	Formula 4	-30.89000 [*]	4.04113	.000	-43.8311	-17.9489
Formula 2	Formula 1	21.74667 [*]	4.04113	.003	8.8055	34.6878
	Formula 3	-45.93667 [*]	4.04113	.000	-58.8778	-32.9955
	Formula 4	-9.14333	4.04113	.186	-22.0845	3.7978
Formula 3	Formula 1	67.68333 [*]	4.04113	.000	54.7422	80.6245
	Formula 2	45.93667 [*]	4.04113	.000	32.9955	58.8778

	Formula 4	36.79333 [*]	4.04113	.000	23.8522	49.7345
Formula 4	Formula 1	30.89000 [*]	4.04113	.000	17.9489	43.8311
	Formula 2	9.14333	4.04113	.186	-3.7978	22.0845
	Formula 3	-36.79333 [*]	4.04113	.000	-49.7345	-23.8522

ANOVA

DOXMurni

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2358.370	3	786.123	87.159	.000
Within Groups	72.156	8	9.019		
Total	2430.525	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: DOXMurni

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	-25.69000 [*]	2.45214	.000	-33.5426	-17.8374
	Formula 3	-34.82000 [*]	2.45214	.000	-42.6726	-26.9674

	Formula 4		-33.54667*	2.45214	.000	-41.3993	-25.6941
Formula 2	Formula 1		25.69000*	2.45214	.000	17.8374	33.5426
	Formula 3		-9.13000*	2.45214	.024	-16.9826	-1.2774
	Formula 4		-7.85667*	2.45214	.050	-15.7093	-.0041
Formula 3	Formula 1		34.82000*	2.45214	.000	26.9674	42.6726
	Formula 2		9.13000*	2.45214	.024	1.2774	16.9826
	Formula 4		1.27333	2.45214	.952	-6.5793	9.1259
Formula 4	Formula 1		33.54667*	2.45214	.000	25.6941	41.3993
	Formula 2		7.85667*	2.45214	.050	.0041	15.7093
	Formula 3		-1.27333	2.45214	.952	-9.1259	6.5793

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
MikropartikelDOX	Equal variances assumed	.066	.810	-4.231	4	.013	-21.74667	5.13989	-36.01728	-7.47605

	Equal variances not assumed			-4.231	3.916	.014	-21.74667	5.13989	-36.13956	-7.35377
DOXMurni	Equal variances assumed	.597	.483	-9.073	4	.001	-25.69000	2.83148	-33.55145	-17.82855
	Equal variances not assumed			-9.073	3.640	.001	-25.69000	2.83148	-33.86788	-17.51212