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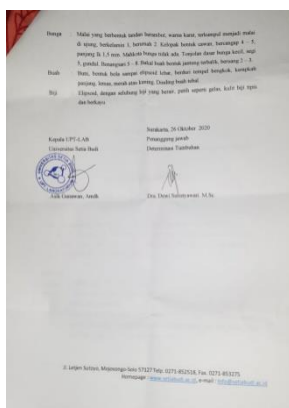
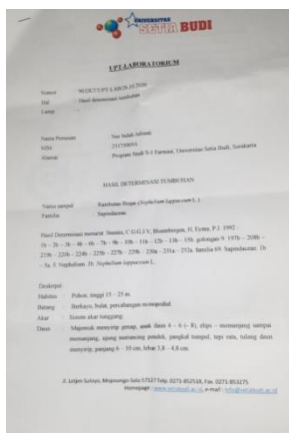
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Lampiran 1. Surat determinasi tanaman rambutan



Lampiran 2. Hasil penyerbukan kulit buah rambutan



Lampiran 3. Data perhitungan rendemen ekstrak kulit buah rambutan

Berat serbuk (g)	Berat botol+ekstrak (g)	Rendemen %
900	632,69	70.29

Perhitungan rendemen :

$$\text{rendemen} = \frac{\text{berat ekstrak kental (gram)}}{\text{berat serbuk (gram)}} \times 100\%$$

$$\begin{aligned} \text{rendemen} &= \frac{632,69}{1000} \times 100\% \\ &= 70,29\% \end{aligned}$$

Lampiran 4. Data perhitungan rendemen fraksi kulit buah rambutan

Berat ekstrak (g)	Berat fraksi air (g)	Rendemen %
	10	5,06
Berat fraksi etil asetat (g)		Rendemen %
2,36		23,6
	Berat fraksi n heksana (g)	Rendemen %
	0,84	8,4

$$\text{rendemen fraksi air} = \frac{\text{berat fraksi (gram)}}{\text{berat ekstrak kental (gram)}} \times 100\%$$

$$\begin{aligned} \text{rendemen fraksi air} &= \frac{5,06}{10} \times 100\% \\ &= 50,6\% \end{aligned}$$

$$\text{rendemen fraksi etil asetat} = \frac{\text{berat fraksi (gram)}}{\text{berat ekstrak kental (gram)}} \times 100\%$$

$$\begin{aligned} \text{rendemen fraksi etil asetat} &= \frac{2,36}{10} \times 100\% \\ &= 23,6\% \end{aligned}$$

$$\text{rendemen fraksi n - heksan} = \frac{\text{berat fraksi (gram)}}{\text{berat ekstrak kental (gram)}} \times 100\%$$

$$\begin{aligned} \text{rendemen fraksin - heksan} &= \frac{0,84}{10} \times 100\% \\ &= 8,4\% \end{aligned}$$

Lampiran 5. Hasil ekstrak kulit buah rambutan



Lampiran 6. Hasil fraksi air kulit buah rambutan



Lampiran 7. Hasil fraksi etil asetat kulit buah rambutan



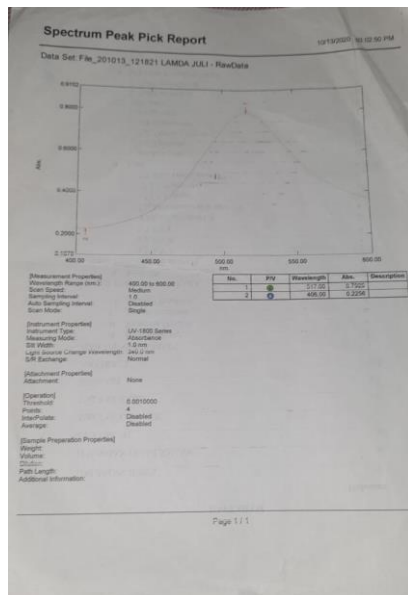
Lampiran 8. Hasil fraksi n-heksan kulit buah rambutan



Lampiran 9. Gambar hasil uji kandungan senyawa kimia kulit buah rambutan

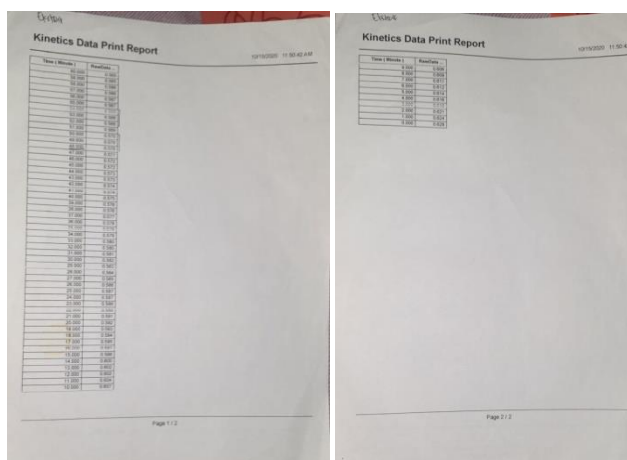


Lampiran 10. Hasil penentuan panjang gelombang maksimum

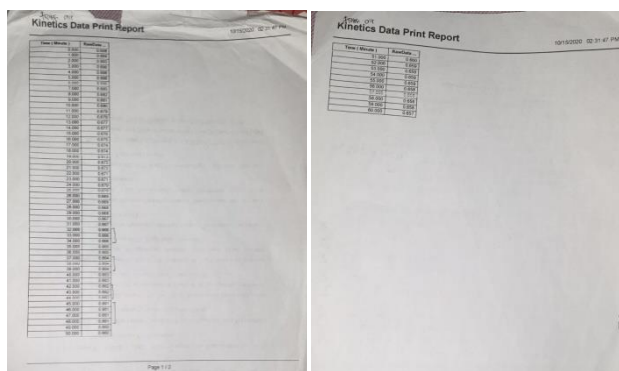


Lampiran 11. Hasil pembacaan operating time

a) Ekstrak etanol kulit buah rambutan



b) Fraksi air kulit buah rambutan



c) Fraksi etil asetat

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Time (Minutes)	Reaction
0.000	0.000
1.000	0.000
2.000	0.000
3.000	0.000
4.000	0.000
5.000	0.000
6.000	0.000
7.000	0.000
8.000	0.000
9.000	0.000
10.000	0.000
11.000	0.000
12.000	0.000
13.000	0.000
14.000	0.000
15.000	0.000
16.000	0.000
17.000	0.000
18.000	0.000
19.000	0.000
20.000	0.000
21.000	0.000
22.000	0.000
23.000	0.000
24.000	0.000
25.000	0.000
26.000	0.000
27.000	0.000
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29.000	0.000
30.000	0.000
31.000	0.000
32.000	0.000
33.000	0.000
34.000	0.000
35.000	0.000
36.000	0.000
37.000	0.000
38.000	0.000
39.000	0.000
40.000	0.000
41.000	0.000
42.000	0.000
43.000	0.000
44.000	0.000
45.000	0.000
46.000	0.000
47.000	0.000
48.000	0.000
49.000	0.000
50.000	0.000

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Time (Minutes)	Reaction
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2.000	0.000
3.000	0.000
4.000	0.000
5.000	0.000
6.000	0.000
7.000	0.000
8.000	0.000
9.000	0.000
10.000	0.000

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d) Vitamin E

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Time (Minutes)	Reaction
0.000	0.000
1.000	0.000
2.000	0.000
3.000	0.000
4.000	0.000
5.000	0.000
6.000	0.000
7.000	0.000
8.000	0.000
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28.000	0.000
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38.000	0.000
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41.000	0.000
42.000	0.000
43.000	0.000
44.000	0.000
45.000	0.000
46.000	0.000
47.000	0.000
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49.000	0.000
50.000	0.000

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Time (Minutes)	Reaction
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3.000	0.000
4.000	0.000
5.000	0.000
6.000	0.000
7.000	0.000
8.000	0.000
9.000	0.000
10.000	0.000

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e) Body butter dengan ekstrak

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Time (Minutes)	Reaction
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14.000	0.000
15.000	0.000
16.000	0.000
17.000	0.000
18.000	0.000
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23.000	0.000
24.000	0.000
25.000	0.000
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27.000	0.000
28.000	0.000
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36.000	0.000
37.000	0.000
38.000	0.000
39.000	0.000
40.000	0.000
41.000	0.000
42.000	0.000
43.000	0.000
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49.000	0.000
50.000	0.000

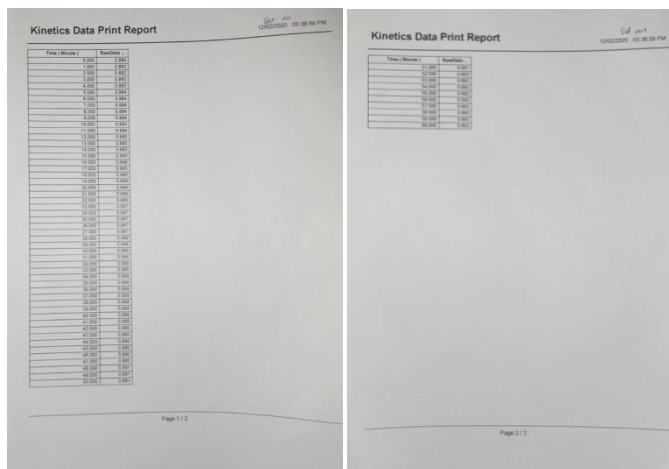
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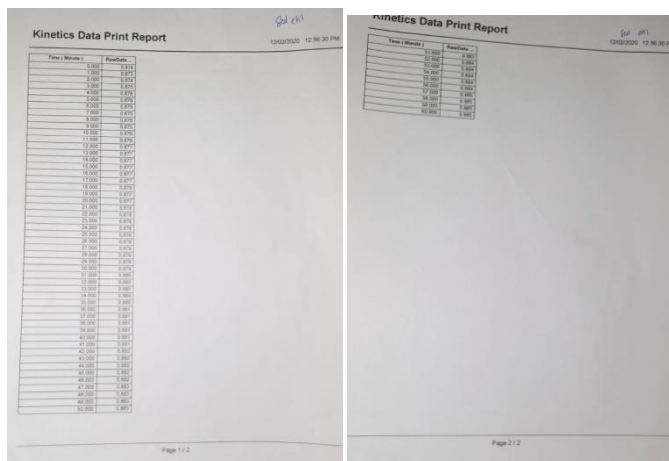
Time (Minutes)	Reaction
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3.000	0.000
4.000	0.000
5.000	0.000
6.000	0.000
7.000	0.000
8.000	0.000
9.000	0.000
10.000	0.000

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f) Body butter dengan fraksi air



g) Body butter dengan fraksi etil asetat



Lampiran 12. Perhitungan aktivitas antioksidan dan IC50

Aktivitas antioksidan				
Sampel	Replikasi	Konsentrasi (ppm)	Absorbansi sampel	Absorbansi DPPH
Ekstrak etanol kulit buah rambutan	Replikasi 1	5	0,700	0,7925
		10	0,669	
		15	0,635	
		20	0,597	
		25	0,560	
	Replikasi 2	5	0,703	
		10	0,670	
		15	0,634	
		20	0,597	
		25	0,559	
	Replikasi 3	5	0,666	
		10	0,627	

		15	0,601	
		20	0,569	
		25	0,530	
Fraksi air kulit buah rambutan	Replikasi 1	5	0,661	
		10	0,620	
		15	0,597	
		20	0,561	
		25	0,529	
	Replikasi 2	5	0,765	
		10	0,722	
		15	0,684	
		20	0,622	
		25	0,583	
	Replikasi 3	5	0,757	
		10	0,711	
		15	0,669	
		20	0,621	
		25	0,573	
Fraksi etil asetat kulit buah rambutan	Replikasi 1	5	0,722	
		10	0,668	
		15	0,623	
		20	0,602	
		25	0,553	
	Replikasi 2	5	0,702	
		10	0,665	
		15	0,613	
		20	0,581	
		25	0,544	
	Replikasi 3	5	0,667	
		10	0,623	
		15	0,598	
		20	0,560	
		25	0,521	
Vitamin E	Replikasi 1	5	0,701	
		10	0,670	
		15	0,639	
		20	0,601	
		25	0,563	
	Replikasi 2	5	0,701	
		10	0,663	
		15	0,625	
		20	0,591	
		25	0,566	
	Replikasi 3	5	0,713	
		10	0,679	
		15	0,634	
		20	0,613	
		25	0,564	

Body butter dengan ekstrak	Replikasi 1	5	0,775	
		10	0,718	
		15	0,673	
		20	0,616	
		25	0,570	
	Replikasi 2	5	0,778	
		10	0,723	
		15	0,670	
		20	0,618	
		25	0,566	
	Replikasi 3	5	0,767	
		10	0,713	
		15	0,661	
		20	0,607	
		25	0,557	
Body butter dengan fraksi air	Replikasi 1	5	0,778	
		10	0,712	
		15	0,669	
		20	0,607	
		25	0,557	
	Replikasi 2	5	0,768	
		10	0,692	
		15	0,649	
		20	0,587	
		25	0,537	
	Replikasi 3	5	0,715	
		10	0,653	
		15	0,606	
		20	0,557	
		25	0,513	
Body butter dengan fraksi etil asetat	Replikasi 1	5	0,747	
		10	0,670	
		15	0,628	
		20	0,566	
		25	0,516	
	Replikasi 2	5	0,727	
		10	0,650	
		15	0,608	
		20	0,544	
		25	0,506	
	Replikasi 3	5	0,376	
		10	0,660	
		15	0,617	
		20	0,553	
		25	0,505	

$$\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

a. Ekstrak etanol kulit buah rambutan

a) Replikasi 1

1. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,700}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 11,671$
2. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,669}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 15,583$
3. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,635}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 19,873$
4. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,597}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 24,668$
5. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,560}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 29,337$

b) Replikasi 2

1. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,703}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 11,293$
2. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,670}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 15,457$
3. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,634}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 20$
4. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,597}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 24,668$
5. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,559}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 29,463$

c) Replikasi 3

$$1. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,666}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,962$$

$$2. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,627}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 20,883$$

$$3. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,601}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 24,164$$

$$4. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,569}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,201$$

$$5. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,530}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 32,123$$

b. Fraksi air kulit buah rambutan

b) Replikasi 1

$$1. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,661}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 16,593$$

$$2. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,620}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 21,766$$

$$3. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,597}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 24,668$$

$$4. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,561}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 29,211$$

$$5. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,529}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 33,249$$

b) Replikasi 2

1. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,765}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 3,470$
2. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,722}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 8,895$
3. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,684}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 13,690$
4. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,622}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 21,514$
5. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,583}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 26,435$

c) Replikasi 3

1. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,757}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 4,479$
2. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,711}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 10,283$
3. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,669}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 15,583$
4. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,621}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 21,640$
5. $\% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$
 $\% \text{inhibisi} = \frac{0,7925 - 0,573}{0,7925} \times 100\%$
 $\% \text{inhibisi} = 27,697$

c. Fraksi etil asetat kulit buah rambutan

a) Replikasi 1

$$1. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,722}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 8,895$$

$$2. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,668}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,709$$

$$3. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,623}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 21,388$$

$$4. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,602}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 24,037$$

$$5. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,553}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 30,220$$

b) Replikasi 2

$$1. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,702}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 11,419$$

$$2. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,665}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 16,008$$

$$3. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,613}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 22,649$$

$$4. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,581}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 26,687$$

$$5. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,544}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 31,356$$

c) Replikasi 3

$$1. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,667}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,835$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,623}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 21,388$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,598}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 24,542$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,560}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 29,337$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,521}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 34,258$$

d. Vitamin E

a) Replikasi 1

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,701}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 11,545$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,670}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,457$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,639}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 19,369$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,601}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 24,164$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,563}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,958$$

b) Replikasi 2

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,701}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 11,545$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,663}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 16,340$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,615}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 19,873$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,591}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 25,425$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,566}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,580$$

c) Replikasi 3

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,713}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 10,031$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,679}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 14,321$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,634}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 20$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,613}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 22,649$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,564}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,832$$

e. Sediaan body butter dengan ekstrak

a) Replikasi 1

$$1. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,775}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 2,208$$

$$2. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,718}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 9,400$$

$$3. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,673}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,078$$

$$4. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,616}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 22,271$$

$$5. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,570}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,075$$

b) Replikasi 2

$$1. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,778}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 1,829$$

$$2. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,723}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 8,769$$

$$3. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,670}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,457$$

$$4. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,618}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 22,018$$

$$5. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,566}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,580$$

c) Replikasi 3

$$1. \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,767}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 3,217$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,713}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 10,031$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,661}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 16,593$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,607}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 23,406$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,557}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 29,716$$

f. Sediaan body butter dengan fraksi air

a) Replikasi 1

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,778}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 1,829$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,712}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 10,157$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,669}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,583$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,607}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 23,406$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,557}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 29,716$$

b) Replikasi 2

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,768}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 3,091$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,692}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 12,681$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,649}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 18,107$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,587}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 25,930$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,537}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 32,239$$

c) Replikasi 3

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,715}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 9,779$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,653}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 17,602$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,606}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 23,533$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,557}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 29,716$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,513}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 35,268$$

g. Sediaan body butter dengan fraksi etil asetat

a) Replikasi 1

$$1. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,747}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 5,741$$

$$2. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,670}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 15,457$$

$$3. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,628}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 20,757$$

$$4. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,566}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 28,580$$

$$5. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,516}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 34,889$$

b) Replikasi 2

$$1. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,727}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 8,264$$

$$2. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,650}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 17,981$$

$$3. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,608}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 23,280$$

$$4. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,544}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 31,356$$

$$5. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,506}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 36,151$$

c) Replikasi 3

$$1. \quad \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,736}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 7,129$$

$$2. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,660}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 16,716$$

$$3. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,617}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 22,145$$

$$4. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,553}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 30,220$$

$$5. \ \% \text{inhibisi} = \frac{\text{absorbansi blakon} - \text{absorbansi sampel}}{\text{absorbansi blanko}} \times 100\%$$

$$\% \text{inhibisi} = \frac{0,7925 - 0,505}{0,7925} \times 100\%$$

$$\% \text{inhibisi} = 36,277$$

Sampel	Replikasi	Hasil regresi linier	IC50 (ppm)	Rata-rata
Ekstrak etanol kulit buah rambutan	Replikasi 1	a = 6,9013 b = 0,88834 c = 0,999177903	48,515	47,303
	Replikasi 2	a = 6,5109 b = 0,91102 r = 0,999651492	47,736	
	Replikasi 3	a = 11,9746 b = 0,8328 r = 0,997838432	45,659	
Fraksi air kulit buah rambutan	Replikasi 1	a = 12,8703 b = 0,81514 r = 0,997408235	45,550	45,026
	Replikasi 2	a = -2,7639 b = 1,17098 r = 0,996918457	45,059	
	Replikasi 3	a = -1,4015 b = 1,15586 r = 0,999704	44,470	
Fraksi etil asetat kulit buah rambutan	Replikasi 1	a = 4,7564 b = 1,01956 r = 0,991419161	44,375	43,431
	Replikasi 2	A = 6,4979 B = 1,00946 R = 0,99720091	43,094	
	Replikasi 3	A = 11,6335 B = 0,8959 R = 0,997298567	42,824	
Vitamin E	Replikasi 1	A = 6,8387	49,573	49,162

		B = 0,87066 R = 998564991		
	Replikasi 2	A = 7,4061 B = 0,8631 R = 0,999708972	49,349	
	Replikasi 3	A = 5,3876 B = 0,9186 R = 0,99476	48,565	
Sediaan body butter dengan ekstrak	Replikasi 1	A = -3,9751 B = 1,2921 R = 0,9992	41,773	40,969
	Replikasi 2	A = -4,6947 B = 1,33502 R = 0,999930328	40,969	
	Replikasi 3	A = -3,3193 B = 1,32746 R = 0,999920783	40,166	
Sediaan body butter dengan fraksi air	Replikasi 1	A = -4,5687 B = 1,38046 R = 0,998328859	39,529	37,62
	Replikasi 2	A = -3,0539 B = 1,4309 R = 0,996590902	37,077	
	Replikasi 3	A = 4,252 B = 1,26184 R = 0,997990689	36,254	
Sediaan body butter dengan fraksi etil asetat	Replikasi 1	A = -0,3409 B = 1,42838 R = 0,996219704	35,243	34,541
	Replikasi 2	A = 2,6617 B = 1,38298 R = 0,993577325	34,229	
	Replikasi 3	A = 0,9589 B = 1,43594 R = 0,996394997	34,152	

Perhitungan IC50

$$Y = a+bx$$

x = nilai IC50

a. Ekstrak etanol kulit buah rambutan

a) Replikasi 1

$$Y = a+bx$$

$$50 = 6,9013 + 0,88834x$$

$$X = \frac{50-6,9013}{0,88834}$$

$$X = 48,515$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = 6,5109 + 0,91102x$$

$$X = \frac{50-6,5109}{0,91102}$$

$$X = 47,736$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = 11,9746 + 0,8328x$$

$$X = \frac{50-11,9746}{0,8328}$$

$$X = 45,659$$

b. Fraksi air kulit buah rambutan

a) Replikasi 1

$$Y = a+bx$$

$$50 = 12,8703 + 0,81514x$$

$$X = \frac{50-12,8703}{0,81514}$$

$$X = 45,550$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = -2,7639 + 1,17098x$$

$$X = \frac{50-(-2,7639)}{1,17098}$$

$$X = 45,059$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = -1,4015 + 1,15586x$$

$$X = \frac{50-(-1,4015)}{1,15586}$$

$$X = 44,470$$

c. Fraksi etil asetat kulit buah rambutan

a) Replikasi 1

$$Y = a+bx$$

$$50 = 4,7564 + 1,01956x$$

$$X = \frac{50-4,7564}{1,01956}$$

$$X = 44,375$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = 6,4979 + 1,00946x$$

$$X = \frac{50-6,4979}{1,00946}$$

$$X = 43,094$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = 11,6335 + 0,8959x$$

$$X = \frac{50-11,6335}{0,8959}$$

$$X = 42,824$$

d. Vitamin E

a) Replikasi 1

$$Y = a+bx$$

$$50 = 6,8387 + 0,87066x$$

$$X = \frac{50-6,8387}{0,87066}$$

$$X = 49,573$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = 7,4061 + 0,8631x$$

$$X = \frac{50-7,4061}{0,8631}$$

$$X = 49,349$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = 5,3876 + 0,9186x$$

$$X = \frac{50-5,3876}{0,9186}$$

$$X = 48,565$$

e. Sediaan body butter dengan ekstrak

a) Replikasi 1

$$Y = a+bx$$

$$50 = -3,9751 + 1,2921x$$

$$X = \frac{50 - (-3,9751)}{1,2921}$$

$$X = 41,773$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = -4,6947 + 1,33502x$$

$$X = \frac{50 - (-4,6947)}{1,33502}$$

$$X = 40,969$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = -3,3193 + 1,32746x$$

$$X = \frac{50 - (-3,3193)}{1,32746}$$

$$X = 40,166$$

f. Sediaan body butter dengan fraksi air

a) Replikasi 1

$$Y = a+bx$$

$$50 = -4,5687 + 1,38046x$$

$$X = \frac{50 - (-4,5687)}{1,38046}$$

$$X = 39,529$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = -3,0539 + 1,4309x$$

$$X = \frac{50 - (-3,0539)}{1,4309}$$

$$X = 37,077$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = 4,252 + 1,26184x$$

$$X = \frac{50 - 4,252}{1,26184}$$

$$X = 36,254$$

g. Sediaan body butter dengan fraksi etil asetat

a) Replikasi 1

$$Y = a+bx$$

$$50 = -0,3409 + 1,42838x$$

$$X = \frac{50 - (-0,3409)}{1,42838}$$

$$X = 35,243$$

b) Replikasi 2

$$Y = a+bx$$

$$50 = 2,6617 + 1,38298x$$

$$X = \frac{50 - 2,6617}{1,38298}$$

$$X = 34,229$$

c) Replikasi 3

$$Y = a+bx$$

$$50 = 0,9589 + 1,43594x$$

$$X = \frac{50 - 0,9589}{1,43594}$$

$$X = 34,152$$

Lampiran 13. Hasil Analisis uji aktivitas antioksidan dengan SPSS

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
HASIL DPPH	21	42.57910	5.035873	34.152	49.573

One-Sample Kolmogorov-Smirnov Test

		HASIL DPPH
N		21
Normal Parameters ^{a,b}	Mean	42.57910
	Std. Deviation	5.035873
	Absolute	.116
Most Extreme Differences	Positive	.101
	Negative	-.116
Kolmogorov-Smirnov Z		.529
Asymp. Sig. (2-tailed)		.942

a. Test distribution is Normal.

b. Calculated from data.

Descriptive Statistics

Dependent Variable: HASIL DPPH

Formula	Mean	Std. Deviation	N
Ektrak	49.16233	.529291	3
fraksi air	47.30333	1.476342	3
fraksi etil asetat	45.02633	.540741	3
vitamin E	43.43100	.828599	3
sediaan ekstrak	40.96933	.803500	3
sediaan fraksi air	37.62000	1.703685	3
sediaan fraksi etil asetat	34.54133	.608880	3
Total	42.57910	5.035873	21

Levene's Test of Equality of Error Variances^a

Dependent Variable: HASIL DPPH

F	df1	df2	Sig.
2.023	6	14	.130

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Formula

Tests of Between-Subjects Effects

Dependent Variable: HASIL DPPH

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	492.485 ^a	6	82.081	78.092	.000
Intercept	38072.566	1	38072.566	36222.130	.000
Formula	492.485	6	82.081	78.092	.000
Error	14.715	14	1.051		
Total	38579.767	21			
Corrected Total	507.200	20			

a. R Squared = .971 (Adjusted R Squared = .959)

Multiple Comparisons

Dependent Variable: HASIL DPPH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound

	fraksi air	1.85900	.837093	.344	-.99932	4.71732
	fraksi etil asetat	4.13600 [*]	.837093	.003	1.27768	6.99432
ekstrak	vitamin E	5.73133 [*]	.837093	.000	2.87301	8.58966
	sediaan ekstrak	8.19300 [*]	.837093	.000	5.33468	11.05132
	sediaan fraksi air	11.54233 [*]	.837093	.000	8.68401	14.40066
	sediaan fraksi etil asetat	14.62100 [*]	.837093	.000	11.76268	17.47932
	ekstrak	-1.85900	.837093	.344	-4.71732	.99932
	fraksi etil asetat	2.27700	.837093	.164	-.58132	5.13532
fraksi air	vitamin E	3.87233 [*]	.837093	.006	1.01401	6.73066
	sediaan ekstrak	6.33400 [*]	.837093	.000	3.47568	9.19232
	sediaan fraksi air	9.68333 [*]	.837093	.000	6.82501	12.54166
	sediaan fraksi etil asetat	12.76200 [*]	.837093	.000	9.90368	15.62032
	ekstrak	-4.13600 [*]	.837093	.003	-6.99432	-1.27768
	fraksi air	-2.27700	.837093	.164	-5.13532	.58132
fraksi etil asetat	vitamin E	1.59533	.837093	.508	-1.26299	4.45366
	sediaan ekstrak	4.05700 [*]	.837093	.004	1.19868	6.91532
	sediaan fraksi air	7.40633 [*]	.837093	.000	4.54801	10.26466
	sediaan fraksi etil asetat	10.48500 [*]	.837093	.000	7.62668	13.34332
	ekstrak	-5.73133 [*]	.837093	.000	-8.58966	-2.87301
	fraksi air	-3.87233 [*]	.837093	.006	-6.73066	-1.01401
vitamin E	fraksi etil asetat	-1.59533	.837093	.508	-4.45366	1.26299
	sediaan ekstrak	2.46167	.837093	.114	-.39666	5.31999
	sediaan fraksi air	5.81100 [*]	.837093	.000	2.95268	8.66932
	sediaan fraksi etil asetat	8.88967 [*]	.837093	.000	6.03134	11.74799
	ekstrak	-8.19300 [*]	.837093	.000	-11.05132	-5.33468
	fraksi air	-6.33400 [*]	.837093	.000	-9.19232	-3.47568
sediaan ekstrak	fraksi etil asetat	-4.05700 [*]	.837093	.004	-6.91532	-1.19868
	vitamin E	-2.46167	.837093	.114	-5.31999	.39666
	sediaan fraksi air	3.34933 [*]	.837093	.017	.49101	6.20766
	sediaan fraksi etil asetat	6.42800 [*]	.837093	.000	3.56968	9.28632
	ekstrak	-11.54233 [*]	.837093	.000	-14.40066	-8.68401
	fraksi air	-9.68333 [*]	.837093	.000	-12.54166	-6.82501
sediaan fraksi air	fraksi etil asetat	-7.40633 [*]	.837093	.000	-10.26466	-4.54801
	vitamin E	-5.81100 [*]	.837093	.000	-8.66932	-2.95268
	sediaan ekstrak	-3.34933 [*]	.837093	.017	-6.20766	-.49101
	sediaan fraksi etil asetat	3.07867 [*]	.837093	.031	.22034	5.93699
	ekstrak	-14.62100 [*]	.837093	.000	-17.47932	-11.76268
sediaan fraksi etil asetat	fraksi air	-12.76200 [*]	.837093	.000	-15.62032	-9.90368
	fraksi etil asetat	-10.48500 [*]	.837093	.000	-13.34332	-7.62668

vitamin E	-8.88967*	.837093	.000	-11.74799	-6.03134
sediaan ekstrak	-6.42800*	.837093	.000	-9.28632	-3.56968
sediaan fraksi air	-3.07867*	.837093	.031	-5.93699	-2.2034

Based on observed means.

The error term is Mean Square(Error) = 1.051.

*. The mean difference is significant at the .05 level.

HASIL DPPH

Tukey HSD^{a,b}

Formula	N	Subset					
		1	2	3	4	5	6
sediaan fraksi etil asetat	3	34.54133					
sediaan fraksi air	3		37.62000				
sediaan ekstrak	3			40.96933			
vitamin E	3			43.43100	43.43100		
fraksi etil asetat	3				45.02633	45.02633	
fraksi air	3					47.30333	47.30333
ekstrak	3						49.16233
Sig.		1.000	1.000	.114	.508	.164	.344

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 1.051.

a. Uses Harmonic Mean Sample Size = 3.000.

b. Alpha = .05.

Lampiran 14. Hasil uji organoleptis sediaan body butter

Formula	Hari ke	Organoleptis		
		Konsistensi	Bau	Warna
Formula 1	1	Semi padat	Lavender	Coklat muda
	7	Semi padat	Lavender	Coklat muda
	14	Semi padat	Lavender	Coklat muda
	21	Semi padat	Lavender	Coklat muda
Formula 2	1	Semi padat	Lavender	Coklat muda
	7	Semi padat	Lavender	Coklat muda
	14	Semi padat	Lavender	Coklat muda
	21	Semi padat	Lavender	Coklat muda
Formula 3	1	Semi padat	Lavender	Coklat muda
	7	Semi padat	Lavender	Coklat muda
	1	Semi padat	Lavender	Coklat muda
	21	Semi padat	Lavender	Coklat muda
Formula 4	1	Semi padat	Lavender	Putih
	7	Semi padat	Lavender	Putih
	14	Semi padat	Lavender	Putih
	21	Semi padat	Lavender	Putih



Lampiran 15. Hasil pengamatan homogenitas sediaan *body butter*

Formula	Hari ke	Homogenitas
Formula 1	1	Homogen
	7	Homogen
	14	Homogen
	21	Homogen
Formula 2	1	Homogen
	7	Homogen
	14	Homogen
	21	Homogen
Formula 3	1	Homogen
	7	Homogen
	14	Homogen
	21	Homogen
Formula 4	1	Homogen
	7	Homogen
	14	Homogen
	21	Homogen



Lampiran 16. Hasil pengamatan uji pH sediaan *body butter*

Hari	Replikasi	pH			
		Formula 1	Formula 2	Formula 3	Formula 4
Hari ke-0	1	6,23	6,18	6,10	6,35
	2	6,25	6,15	6,12	6,30
	3	6,30	6,13	6,12	6,38
Hari ke-21	1	6,05	6,05	6,03	6,13
	2	6,02	6,02	6,01	6,12
	3	6,05	6,01	5,99	6,10

Lampiran 17. Hasil uji analisis pH sediaan *body butter* dengan spss

One-Sample Kolmogorov-Smirnov Test

		Ph
N		24
Normal Parameters ^{a,b}	Mean	6.1329
	Std. Deviation	.11415
	Absolute	.177
Most Extreme Differences	Positive	.177
	Negative	-.105
Kolmogorov-Smirnov Z		.866
Asymp. Sig. (2-tailed)		.441

a. Test distribution is Normal.

b. Calculated from data.

Levene's Test of Equality of Error Variances

Dependent Variable: ph

F	df1	df2	Sig.
1.165	7	16	.375

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + formula + hari + formula * hari

Tests of Between-Subjects Effects

Dependent Variable: ph

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.290 ^a	7	.041	65.315	.000
Intercept	902.704	1	902.704	1425322.112	.000
formula	.100	3	.033	52.533	.000
hari	.172	1	.172	271.112	.000
formula * hari	.018	3	.006	9.498	.001
Error	.010	16	.001		
Total	903.004	24			
Corrected Total	.300	23			

a. R Squared = .966 (Adjusted R Squared = .951)

Ph

Tukey HSDa,b

formula	N	Subset		
		1	2	3
f3	6	6.0617		
f2	6	6.0900		
f1	6		6.1500	
f4	6			6.2300
Sig.		.247	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .001.

a. Uses Harmonic Mean Sample Size = 6.000.

b. Alpha = .05.

Lampiran 18. Hasil uji viskositas sediaan body butter

Hari	Replikasi	Viskositas			
		Formula 1	Formula 2	Formula 3	Formula4
Hari ke-0	1	300	310	300	310
	2	310	320	300	310
	3	320	330	310	300
Hari ke-21	1	300	310	300	310
	2	310	300	300	310
	3	320	310	310	300



Lampiran 19. Hasil uji statistik viskositas menggunakan spss

One-Sample Kolmogorov-Smirnov Test

		Viskositas
N		24
Normal Parameters ^{a,b}	Mean	308.33
	Std. Deviation	8.165
	Absolute	.252
Most Extreme Differences	Positive	.252
	Negative	-.206
Kolmogorov-Smirnov Z		1.237
Asymp. Sig. (2-tailed)		.094

a. Test distribution is Normal.

b. Calculated from data.

Levene's Test of Equality of Error Variances^a

Dependent Variable: viskositas

F	df1	df2	Sig.
.268	7	16	.958

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + formula + hari + formula * hari

Tests of Between-Subjects Effects

Dependent Variable: viskositas

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	600.000 ^a	7	85.714	1.469	.247
Intercept	2281666.667	1	2281666.667	39114.286	.000
formula	333.333	3	111.111	1.905	.170
hari	66.667	1	66.667	1.143	.301

formula * hari	200.000	3	66.667	1.143	.362
Error	933.333	16	58.333		
Total	2283200.000	24			
Corrected Total	1533.333	23			

a. R Squared = .391 (Adjusted R Squared = .125)

Viskositas

Tukey HSDa,b

formula	N	Subset
		1
f3	6	303.33
f4	6	306.67
f1	6	310.00
f2	6	313.33
Sig.		.148

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean

Square(Error) = 58.333.

a. Uses Harmonic Mean Sample

Size = 6.000.

b. Alpha = .05.

Lampiran 20. Hasil uji daya sebar sediaan body butter

Formula	Beban (g)	Daya sebar (g)							
		Hari ke-1		Hari ke-7		Hari ke 14		Hari ke-21	
Formula 1	0	6,00 ± 0,21	5,58 ± 0,05	5,34 ± 0,07	5,11 ± 0,10				
	50	6,24 ± 0,38	5,73 ± 0,11	5,51 ± 0,22	5,30 ± 0,15				
	100	6,48 ± 0,32	6,30 ± 0,47	5,80 ± 0,24	5,46 ± 0,07				
	150	6,63 ± 0,27	6,40 ± 0,48	5,94 ± 0,20	5,66 ± 0,11				
Formula 2	0	6,09 ± 0,13	5,77 ± 0,63	6,07 ± 0,11	5,61 ± 0,52				
	50	6,22 ± 0,17	6,21 ± 0,05	6,19 ± 0,10	5,75 ± 0,52				
	100	6,36 ± 0,13	6,45 ± 0,14	6,32 ± 0,06	5,89 ± 0,56				
	150	6,54 ± 0,21	6,57 ± 0,15	6,49 ± 0,05	6,01 ± 0,62				
Formula 3	0	6,38 ± 0,06	6,19 ± 0,08	6,11 ± 0,09	5,87 ± 0,08				
	50	6,57 ± 0,06	6,35 ± 0,06	6,23 ± 0,12	5,97 ± 0,11				
	100	6,74 ± 0,12	6,55 ± 0,06	6,53 ± 0,09	6,08 ± 0,16				
	150	6,82 ± 0,08	6,70 ± 0,01	6,77 ± 0,05	6,27 ± 0,20				
Formula 4 (Kontrol negatif)	0	5,53 ± 0,08	5,41 ± 0,09	5,32 ± 0,13	5,22 ± 0,10				
	50	5,67 ± 0,09	5,49 ± 0,07	5,37 ± 0,13	5,28 ± 0,13				
	100	5,85 ± 0,12	5,68 ± 0,08	5,52 ± 0,15	5,45 ± 0,13				
	150	6,07 ± 0,10	5,79 ± 0,03	5,72 ± 0,12	5,72 ± 0,08				



Lampiran 21. Hasil uji analisis spps daya sebar sediaan body butter

	N	Mean	Std. Deviation	Minimum	Maximum
dayasebar	192	5.9932	.48500	5.01	6.95

One-Sample Kolmogorov-Smirnov Test

			Dayasebar
N			192
Normal Parameters ^{a,b}	Mean		5.9932
	Std. Deviation		.48500
	Absolute		.059
Most Extreme Differences	Positive		.059
	Negative		-.056
Kolmogorov-Smirnov Z			.820
Asymp. Sig. (2-tailed)			.512

a. Test distribution is Normal.

b. Calculated from data.

Levene's Test of Equality of Error Variances^a

Dependent Variable: dayasebar

F	df1	df2	Sig.
3.325	15	176	.000

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + kelompok + hari + kelompok * hari

ANOVA

dayasebar

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	18.067	3	6.022	42.148	.000
Within Groups	26.862	188	.143		
Total	44.929	191			

Multiple Comparisons

Dependent Variable: dayasebar Dunnett T3

(I) kelompok	(J) kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	F3	-.29521*	.09371	.013	-.5471	-.0433
	Formula 3	-.51750*	.08553	.000	-.7482	-.2868
	F4	.29667*	.08146	.003	.0762	.5172
F3	Formula 1	.29521*	.09371	.013	.0433	.5471
	Formula 3	-.22229*	.07260	.017	-.4175	-.0271
	F4	.59188*	.06776	.000	.4091	.7746
Formula 3	Formula 1	.51750*	.08553	.000	.2868	.7482
	F3	.22229*	.07260	.017	.0271	.4175
	F4	.81417*	.05591	.000	.6639	.9644
F4	Formula 1	-.29667*	.08146	.003	-.5172	-.0762
	F3	-.59188*	.06776	.000	-.7746	-.4091
	Formula 3	-.81417*	.05591	.000	-.9644	-.6639

Lampiran 22. Hasil uji daya lekat sediaan body butter

Formula	Daya lekat (detik)							
	Hari ke-1		Hari ke-7		Hari ke-14		Hari ke-21	
Formula 1	11,01	± 1,058	12,31	± 0,740	13,68	± 1,549	16,11	± 0,427
Formula 2	9,58	± 0,535	10,07	± 0,581	12,39	± 0,946	13,41	± 0,701
Formula 3	8,80	± 0,508	10,10	± 1,084	10,11	± 0,181	10,73	± 0,590
Formula 4	13,67	± 0,576	14,11	± 0,405	14,61	± 0,153	15,07	± 0,105



Lampiran 23. Hasil uji statistik spps daya lekat sediaan body butter

One-Sample Kolmogorov-Smirnov Test

		DayaLekat
N		48
Normal Parameters ^{a,b}	Mean	9.9342
	Std. Deviation	2.67560
	Absolute	.145
Most Extreme Differences	Positive	.114
	Negative	-.145
Kolmogorov-Smirnov Z		1.005
Asymp. Sig. (2-tailed)		.264

a. Test distribution is Normal.

b. Calculated from data.

Levene's Test of Equality of Error Variances^a

Dependent Variable: DayaLekat

F	df1	df2	Sig.
1.947	15	32	.056

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + Kelompok + Hari + Kelompok * Hari

ANOVA

DayaLekat

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	139.931	3	46.644	20.638	.000
Within Groups	99.443	44	2.260		
Total	239.374	47			

DayaLekat

Student-Newman-Keuls^a

Kelompok	N	Subset for alpha = 0.05		
		1	2	3
Formula 3	12	9.9358		
Formula 2	12		11.3633	
Formula 1	12			13.2750
Formula 4	12			14.3642
Sig.		1.000	1.000	.083

Means for groups in homogeneous subsets are displayed

a. Uses Harmonic Mean Sample Size = 12.000.

DayaLekatStudent-Newman-Keuls^a

Hari	N	Subset for alpha = 0.05	
		1	2
Hari ke-1	12	10.7650	
Hari ke-7	12	11.6475	
Hari ke-14	12	12.6975	12.6975
Hari ke-21	12		13.8283
Sig.		.057	.173

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 12.000.

Lampiran 24. Hasil uji stabilitas sediaan body butter dengan metode cycling test

