

LAMPIRAN

Lampiran 1. Dokumentasi Penelitian

Gambar	Keterangan
	Pembuatan simplisia ekstrak kunyit (<i>Curcuma domestica</i> Val.)
	Penjemuran sampai menjadi simplisia kering
	Haluskan sampai menjadi bubuk kunyit (<i>Curcuma domestica</i> Val.)
	Masukkan simplisia kedalam wadah yang tertutup dan tambahkan etanol 96% sebanyak 2000 ml

Gambar	Keterangan
	Aduk hingga tercampur dengan rata etanol 96%
	Dan dimasukkan ke dalam wadah yang tertutup rapat ditempat yang kering dan terhindar dari cahaya matahari selama 5 hari (proses maserasi)
	Setelah 5 hari ekstrak disaring menggunakan kain flannel putih
	Masukan fase minyak (asam stearat, setil alkohol, propylparaben) kedalam beaker glass

Gambar	Keterangan
	Timbang fase air (TEA) sesuai yang dibutuhkan
	Masukan fase air (TEA, aquadest metylparaben) kedalam beaker glass
	Setelah dilelehkan dicampurkan fase air dan fase minyak menggunakan hand mixer sampai mengental

Gambar	Keterangan
	Campurkan ekstrak kunyit (<i>Curcuma domestica</i> Val.) kedalam beaker glass dan di mixer hingga terjadi satu kesatuan
	Setelah tercampur rata ekstrak kunyit dan lotion menjadi lotion ekstrak kunyit (<i>Curcuma domestica</i> Val.)
	Lotion ekstrak kunyit (<i>Curcuma domestica</i> Val.) dimasukkan di dalam wadah dan siap diujikan

Lampiran 2. Perhitungan Ekstrak Kunyit (*Curcuma domestica*)

1. Perhitungan randemen

Berat cawan + isi = 183,6 gram - 78,66 gram

$$= 104,94 \text{ gram}$$

Berat cawan kosong = 78,66 gram

Berat cawan + isi - Berat cawan kosong = 104,94 gram - 78,66 gram = 26,28 gram

$$\text{Randemen} = \frac{\text{bobot ekstrak}}{\text{berat simplisia}} \times 100\%$$

$$= \frac{26,28 \text{ gr}}{300 \text{ gr}} \times 100\%$$

$$= 0,0876 \text{ gr} \times 100\%$$

$$= 8,76\%$$

jadi berat hasil randemen dari cawan 8,76%

2. Perhitungan penimbangan bahan lotion (per formula / 100 ml)

Formula I (1%)

$$\text{Ekstrak Kunyit} = \frac{1}{100} \times 100 \text{ ml} = 1 \text{ gr}$$

$$\text{Asam Stearat} = \frac{4}{100} \times 100 \text{ ml} = 4 \text{ gr}$$

$$\text{Setil alkohol} = \frac{4}{100} \times 100 \text{ ml} = 4 \text{ gr}$$

$$\text{Metylparaben} = \frac{0,3}{100} \times 100 = 0,3 \text{ gr}$$

$$\text{Propylparaben} = 0,1/100 \times 100 = 0,1 \text{ gr}$$

$$\text{TEA} = 1/100 \times 100 \text{ ml} = 1 \text{ ml}$$

$$\text{Aquadest} = 100 - (1 + 4 + 4 + 0,3 + 0,1 + 1)$$

$$100 - 10,4 = 89,6 \text{ ml}$$

Formula II (3%)

$$\text{Ekstrak kunyit} = 3/100 \times 100 \text{ ml} = 3 \text{ ml}$$

$$\text{Asam stearat} = 4/100 \times 100 \text{ gr} = 4 \text{ gr}$$

$$\text{Setil Alkohol} = 4/100 \times 100 \text{ gr} = 4 \text{ gr}$$

$$\text{Metylparaben} = 0,3/100 \times 100 \text{ gr} = 0,3 \text{ gr}$$

$$\text{Propylparaben} = 0,1/100 \times 100 \text{ gr} = 0,1 \text{ gr}$$

$$\text{TEA} = 1/100 \times 100 \text{ ml} = 1 \text{ ml}$$

$$\text{Aquadest} = 100 - (3 + 4 + 4 + 0,3 + 0,1 + 1)$$

$$100 - 12,4 = 87,6 \text{ ml}$$

Formula III (6%)

$$\text{Ekstrak kunyit} = 6/100 \times 100 \text{ ml} = 6 \text{ ml}$$

$$\text{Asam stearat} = 4/100 \times 100 \text{ gr} = 4 \text{ gr}$$

$$\text{Setil Alkohol} = \frac{4}{100} \times 100 \text{ gr} = 4 \text{ gr}$$

$$\text{Metylparaben} = \frac{0,3}{100} \times 100 \text{ gr} = 0,3 \text{ gr}$$

$$\text{Propylparaben} = \frac{0,1}{100} \times 100 \text{ gr} = 0,1 \text{ gr}$$

$$\text{TEA} = \frac{1}{100} \times 100 \text{ ml} = 1 \text{ ml}$$

$$\text{Aquadest} = 100 - (6 + 4 + 4 + 0,3 + 0,1 + 1)$$

$$100 - 15,4 = 84,6 \text{ ml}$$

Lampiran 3. SPSS Uji Daya Lekat

Frequencies

Statistics

Daya Lekat

N	Valid	9
	Missing	0
Mean		2.8578
Median		2.6500
Mode		2.17 ^a
Std. Deviation		.57669
Variance		.333
Minimum		2.17
Maximum		3.79
Sum		25.72

a. Multiple modes exist. The smallest value is shown

```
EXAMINE VARIABLES=dayalekat
/PLOT BOXPLOT STEMLEAF NPLOT
/COMPARE GROUPS
/STATISTICS DESCRIPTIVES
/CINTERVAL 95
/MISSING LISTWISE
/NOTOTAL.
```

Explore

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Daya Lekat	9	100.0%	0	0.0%	9	100.0%

Descriptives

		Statistic	Std. Error
Daya Lekat	Mean	2.8578	.19223
	95% Confidence Interval Lower Bound	2.4145	
	for Mean Upper Bound	3.3011	
	5% Trimmed Mean	2.8442	
	Median	2.6500	
	Variance	.333	
	Std. Deviation	.57669	
	Minimum	2.17	
	Maximum	3.79	
	Range	1.62	
	Interquartile Range	1.08	
	Skewness	.597	.717
	Kurtosis	-1.203	1.400

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Daya Lekat	.241	9	.141	.896	9	.232

a. Lilliefors Significance Correction

ONEWAY dayalekat BY formula

/STATISTICS DESCRIPTIVES HOMOGENEITY

/PLOT MEANS

/MISSING ANALYSIS

/POSTHOC=TUKEY ALPHA(0.05).

Oneway

Descriptives

Daya Lekat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower	Upper		
					Bound	Bound		
F1	3	2.6200	.12530	.07234	2.3087	2.9313	2.50	2.75
F2	3	3.5800	.18358	.10599	3.1240	4.0360	3.45	3.79
F3	3	2.3733	.24826	.14333	1.7566	2.9900	2.17	2.65
Total	9	2.8578	.57669	.19223	2.4145	3.3011	2.17	3.79

Test of Homogeneity of Variances

Daya Lekat

Levene			
Statistic	df1	df2	Sig.
1.115	2	6	.387

ANOVA

Daya Lekat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2.438	2	1.219	32.943	.001
Within Groups	.222	6	.037		
Total	2.661	8			

Post Hoc Tests**Multiple Comparisons**

Dependent Variable: Daya Lekat

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F1	F2	-.96000*	.15708	.002	-1.4420	-.4780
	F3	.24667	.15708	.327	-.2353	.7286
F2	F1	.96000*	.15708	.002	.4780	1.4420
	F3	1.20667*	.15708	.001	.7247	1.6886
F3	F1	-.24667	.15708	.327	-.7286	.2353
	F2	-1.20667*	.15708	.001	-1.6886	-.7247

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

Homogeneous Subsets

Daya Lekat

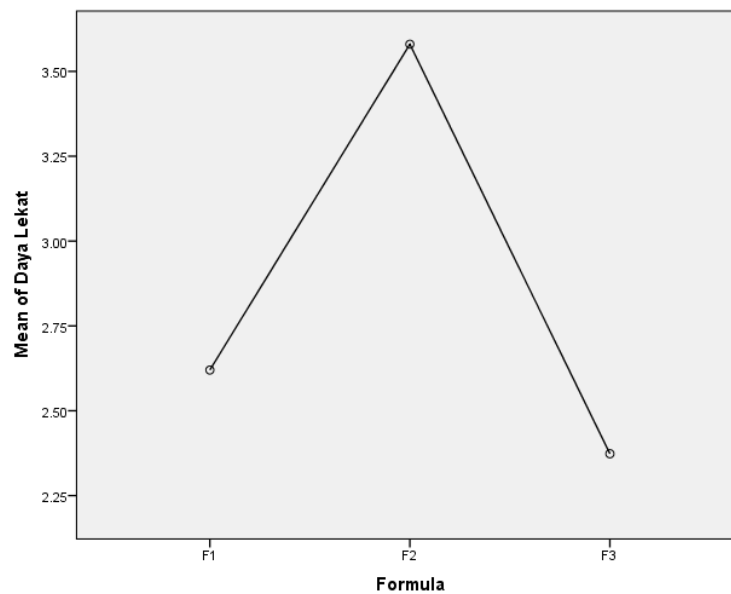
Tukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
F3	3	2.3733	3.5800
F1	3	2.6200	
F2	3		
Sig.		.327	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Means Plots



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 Judul Penelitian : Uji Sifat Fisik Lotion Tabir Surya Dari Ekstrak Kunyit
 (*Curcuma domestica Val.*)

Tegal, 25 Agustus 2025

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