

LAMPIRAN

Lampiran 1 Hasil Pengolahan Data SPSS

→ Data pH Basis *Essence*

Tests of Normality							
Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk			Sig.
	Statistic	df	Sig.	Statistic	df	Sig.	
Nilai_pH	Formula A	.385	3	.	.750	3	.000
	Formula B	.175	3	.	1.000	3	1.000
	Formula C	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Nilai_pH			
Levene Statistic	df1	df2	Sig.
2.000	2	6	.216

ANOVA

Nilai_pH					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.054	2	.027	43.625	.000
Within Groups	.004	6	.001		
Total	.058	8			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Nilai_pH

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula A	Formula B	-.08667 [*]	.02037	.013	-.1492	-.0242
	Formula C	-.19000 [*]	.02037	.000	-.2525	-.1275
Formula B	Formula A	.08667 [*]	.02037	.013	.0242	.1492
	Formula C	-.10333 [*]	.02037	.005	-.1658	-.0408
Formula C	Formula A	.19000 [*]	.02037	.000	.1275	.2525
	Formula B	.10333 [*]	.02037	.005	.0408	.1658

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

➔ Data Viskositas Basis *Essence*

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Nilai_Viskositas	Formula A	.175	3	.	1.000	3	1.000
	Formula B	.176	3	.	1.000	3	.984
	Formula C	.176	3	.	1.000	3	.984

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Nilai_Viskositas

Levene Statistic	df1	df2	Sig.
.001	2	6	.999

ANOVA

Nilai_Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	38416.002	2	19208.001	1728.547	.000
Within Groups	66.673	6	11.112		
Total	38482.676	8			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Nilai_Viskositas

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
Formula A	Formula B	-80.03333 [*]	2.72179	.000	-88.3845	-71.6821
	Formula C	-160.03333 [*]	2.72179	.000	-168.3845	-151.6821
Formula B	Formula A	80.03333 [*]	2.72179	.000	71.6821	88.3845
	Formula C	-80.00000 [*]	2.72179	.000	-88.3512	-71.6488
Formula C	Formula A	160.03333 [*]	2.72179	.000	151.6821	168.3845
	Formula B	80.00000 [*]	2.72179	.000	71.6488	88.3512

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

➔ **Data pH Formula *Essence Sheet Mask* Selama 21 Hari (Suhu Ruang)**

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH_Hari_1	Formula 0	.196	3	.	.996	3	.878
	Formula 1	.276	3	.	.942	3	.537
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.265	3	.	.953	3	.583
pH_Hari_7	Formula 0	.175	3	.	1.000	3	1.000
	Formula 1	.196	3	.	.996	3	.878
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.292	3	.	.923	3	.463
pH_Hari_14	Formula 0	.227	3	.	.983	3	.747
	Formula 1	.219	3	.	.987	3	.780
	Formula 2	.314	3	.	.893	3	.363
	Formula 3	.253	3	.	.964	3	.637
pH_Hari_21	Formula 0	.219	3	.	.987	3	.780
	Formula 1	.308	3	.	.902	3	.391
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.225	3	.	.984	3	.756

a. Lilliefors Significance Correction

Test of Homogeneity of Variances				
	Levene Statistic	df1	df2	Sig.
pH_Hari_1	.884	3	8	.490
pH_Hari_7	2.052	3	8	.185
pH_Hari_14	2.192	3	8	.167
pH_Hari_21	.502	3	8	.691

ANOVA						
		Sum of Squares	df	Mean Square	F	Sig.
pH_Hari_1	Between Groups	.454	3	.151	69.589	.000
	Within Groups	.017	8	.002		
	Total	.471	11			
pH_Hari_7	Between Groups	.318	3	.106	36.205	.000
	Within Groups	.023	8	.003		
	Total	.341	11			
pH_Hari_14	Between Groups	.238	3	.079	54.203	.000
	Within Groups	.012	8	.001		
	Total	.250	11			
pH_Hari_21	Between Groups	.169	3	.056	11.524	.003
	Within Groups	.039	8	.005		
	Total	.208	11			

Post Hoc Tests

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
pH_Hari_1	Formula 0	Formula 1	-.29667*	.03808	.000	-.4186	-.1747
		Formula 2	-.38333*	.03808	.000	-.5053	-.2614
		Formula 3	-.53333*	.03808	.000	-.6553	-.4114
	Formula 1	Formula 0	.29667*	.03808	.000	.1747	.4186
		Formula 2	-.08667	.03808	.183	-.2086	.0353
		Formula 3	-.23667*	.03808	.001	-.3586	-.1147
	Formula 2	Formula 0	.38333*	.03808	.000	.2614	.5053
		Formula 1	.08667	.03808	.183	-.0353	.2086
		Formula 3	-.15000*	.03808	.018	-.2719	-.0281
	Formula 3	Formula 0	.53333*	.03808	.000	.4114	.6553
		Formula 1	.23667*	.03808	.001	.1147	.3586
		Formula 2	.15000*	.03808	.018	.0281	.2719
pH_Hari_7	Formula 0	Formula 1	-.31333*	.04416	.000	-.4547	-.1719
		Formula 2	-.37333*	.04416	.000	-.5147	-.2319
		Formula 3	-.41333*	.04416	.000	-.5547	-.2719
	Formula 1	Formula 0	.31333*	.04416	.000	.1719	.4547
		Formula 2	-.06000	.04416	.555	-.2014	.0814
		Formula 3	-.10000	.04416	.186	-.2414	.0414
	Formula 2	Formula 0	.37333*	.04416	.000	.2319	.5147
		Formula 1	.06000	.04416	.555	-.0814	.2014
		Formula 3	-.04000	.04416	.802	-.1814	.1014
	Formula 3	Formula 0	.41333*	.04416	.000	.2719	.5547
		Formula 1	.10000	.04416	.186	-.0414	.2414
		Formula 2	.04000	.04416	.802	-.1014	.1814
pH_Hari_14	Formula 0	Formula 1	-.31333*	.03127	.000	-.4135	-.2132
		Formula 2	-.35000*	.03127	.000	-.4501	-.2499
		Formula 3	-.30667*	.03127	.000	-.4068	-.2065
	Formula 1	Formula 0	.31333*	.03127	.000	.2132	.4135
		Formula 2	-.03667	.03127	.659	-.1368	.0635
		Formula 3	.00667	.03127	.996	-.0935	.1068
	Formula 2	Formula 0	.35000*	.03127	.000	.2499	.4501
		Formula 1	.03667	.03127	.659	-.0635	.1368
		Formula 3	.04333	.03127	.541	-.0568	.1435
	Formula 3	Formula 0	.30667*	.03127	.000	.2065	.4068
		Formula 1	-.00667	.03127	.996	-.1068	.0935
		Formula 2	-.04333	.03127	.541	-.1435	.0568

pH_Hari_21	Formula 0	Formula 1	-.26667 [*]	.05706	.007	-.4494	-.0839
		Formula 2	.01333	.05706	.995	-.1694	.1961
		Formula 3	-.17667	.05706	.058	-.3594	.0061
	Formula 1	Formula 0	.26667 [*]	.05706	.007	.0839	.4494
		Formula 2	.28000 [*]	.05706	.005	.0973	.4627
		Formula 3	.09000	.05706	.441	-.0927	.2727
	Formula 2	Formula 0	-.01333	.05706	.995	-.1961	.1694
		Formula 1	-.28000 [*]	.05706	.005	-.4627	-.0973
		Formula 3	-.19000 [*]	.05706	.042	-.3727	-.0073
	Formula 3	Formula 0	.17667	.05706	.058	-.0061	.3594
		Formula 1	-.09000	.05706	.441	-.2727	.0927
		Formula 2	.19000 [*]	.05706	.042	.0073	.3727

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

→ Data Viskositas Formula *Essence Sheet Mask* Selama 21 Hari (Suhu Ruang)

Tests of Normality							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas_1	Formula 0	.175	3	.	1.000	3	1.000
	Formula 1	.255	3	.	.963	3	.630
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000
Viskositas_7	Formula 0	.176	3	.	1.000	3	.984
	Formula 1	.176	3	.	1.000	3	.984
	Formula 2	.176	3	.	1.000	3	.984
	Formula 3	.385	3	.	.750	3	.000
Viskositas_14	Formula 0	.176	3	.	1.000	3	.984
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.176	3	.	1.000	3	.984
	Formula 3	.214	3	.	.989	3	.804
Viskositas_21	Formula 0	.385	3	.	.750	3	.000
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.214	3	.	.989	3	.804
	Formula 3	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Viskositas_1	1.379	3	8	.317
Viskositas_7	.141	3	8	.932
Viskositas_14	.146	3	8	.929
Viskositas_21	.998	3	8	.442

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Viskositas_1	Between Groups	218.150	3	72.717	6.594	.015
	Within Groups	88.227	8	11.028		
	Total	306.377	11			
Viskositas_7	Between Groups	244.223	3	81.408	8.678	.007
	Within Groups	75.047	8	9.381		
	Total	319.269	11			
Viskositas_14	Between Groups	281.423	3	93.808	10.964	.003
	Within Groups	68.447	8	8.556		
	Total	349.869	11			
Viskositas_21	Between Groups	413.749	3	137.916	16.732	.001
	Within Groups	65.940	8	8.243		
	Total	479.689	11			

Post Hoc Tests

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Viskositas_1	Formula 0	Formula 1	8.86667*	2.71150	.045	.1835	17.5498
		Formula 2	8.90000*	2.71150	.045	.2168	17.5832
		Formula 3	11.10000*	2.71150	.015	2.4168	19.7832
	Formula 1	Formula 0	-8.86667*	2.71150	.045	-17.5498	-.1835
		Formula 2	.03333	2.71150	1.000	-8.6498	8.7165
		Formula 3	2.23333	2.71150	.842	-6.4498	10.9165
	Formula 2	Formula 0	-8.90000*	2.71150	.045	-17.5832	-.2168
		Formula 1	-.03333	2.71150	1.000	-8.7165	8.6498
		Formula 3	2.20000	2.71150	.848	-6.4832	10.8832
	Formula 3	Formula 0	-11.10000*	2.71150	.015	-19.7832	-2.4168
		Formula 1	-2.23333	2.71150	.842	-10.9165	6.4498
		Formula 2	-2.20000	2.71150	.848	-10.8832	6.4832
Viskositas_7	Formula 0	Formula 1	10.00000*	2.50078	.017	1.9916	18.0084
		Formula 2	10.00000*	2.50078	.017	1.9916	18.0084
		Formula 3	11.10000*	2.50078	.009	3.0916	19.1084
	Formula 1	Formula 0	-10.00000*	2.50078	.017	-18.0084	-1.9916
		Formula 2	.00000	2.50078	1.000	-8.0084	8.0084
		Formula 3	1.10000	2.50078	.970	-6.9084	9.1084
	Formula 2	Formula 0	-10.00000*	2.50078	.017	-18.0084	-1.9916
		Formula 1	.00000	2.50078	1.000	-8.0084	8.0084
		Formula 3	1.10000	2.50078	.970	-6.9084	9.1084

	Formula 3	Formula 0	-11.10000*	2.50078	.009	-19.1084	-3.0916
		Formula 1	-1.10000	2.50078	.970	-9.1084	6.9084
		Formula 2	-1.10000	2.50078	.970	-9.1084	6.9084
Viskositas_14	Formula 0	Formula 1	8.90000*	2.38828	.024	1.2519	16.5481
		Formula 2	10.00000*	2.38828	.013	2.3519	17.6481
		Formula 3	13.00000*	2.38828	.003	5.3519	20.6481
	Formula 1	Formula 0	-8.90000*	2.38828	.024	-16.5481	-1.2519
		Formula 2	1.10000	2.38828	.966	-6.5481	8.7481
		Formula 3	4.10000	2.38828	.376	-3.5481	11.7481
	Formula 2	Formula 0	-10.00000*	2.38828	.013	-17.6481	-2.3519
		Formula 1	-1.10000	2.38828	.966	-8.7481	6.5481
		Formula 3	3.00000	2.38828	.612	-4.6481	10.6481
	Formula 3	Formula 0	-13.00000*	2.38828	.003	-20.6481	-5.3519
		Formula 1	-4.10000	2.38828	.376	-11.7481	3.5481
		Formula 2	-3.00000	2.38828	.612	-10.6481	4.6481
Viskositas_21	Formula 0	Formula 1	8.86667*	2.34414	.022	1.3599	16.3734
		Formula 2	10.76667*	2.34414	.008	3.2599	18.2734
		Formula 3	16.33333*	2.34414	.001	8.8266	23.8401
	Formula 1	Formula 0	-8.86667*	2.34414	.022	-16.3734	-1.3599
		Formula 2	1.90000	2.34414	.848	-5.6068	9.4068
		Formula 3	7.46667	2.34414	.051	-.0401	14.9734
	Formula 2	Formula 0	-10.76667*	2.34414	.008	-18.2734	-3.2599
		Formula 1	-1.90000	2.34414	.848	-9.4068	5.6068
		Formula 3	5.56667	2.34414	.160	-1.9401	13.0734
	Formula 3	Formula 0	-16.33333*	2.34414	.001	-23.8401	-8.8266
		Formula 1	-7.46667	2.34414	.051	-14.9734	.0401
		Formula 2	-5.56667	2.34414	.160	-13.0734	1.9401

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

➔ Data pH Uji Stabilitas *Essence Sheet Mask* pada *Cycling Test* (3 Siklus)

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Siklus0_pH	Formula 0	.219	3	.	.987	3	.780
	Formula 1	.308	3	.	.902	3	.391
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.304	3	.	.907	3	.407
Siklus1_pH	Formula 0	.238	3	.	.976	3	.702
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.196	3	.	.996	3	.878
Siklus2_pH	Formula 0	.276	3	.	.942	3	.537
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000
Siklus3_pH	Formula 0	.253	3	.	.964	3	.637
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Siklus0_pH	.503	3	8	.690
Siklus1_pH	2.579	3	8	.126
Siklus2_pH	2.118	3	8	.176
Siklus3_pH	3.564	3	8	.067

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Siklus0_pH	Between Groups	.158	3	.053	15.606	.001
	Within Groups	.027	8	.003		
	Total	.185	11			
Siklus1_pH	Between Groups	.107	3	.036	13.113	.002
	Within Groups	.022	8	.003		
	Total	.129	11			
Siklus2_pH	Between Groups	.105	3	.035	35.795	.000
	Within Groups	.008	8	.001		
	Total	.113	11			
Siklus3_pH	Between Groups	.103	3	.034	84.265	.000
	Within Groups	.003	8	.000		
	Total	.106	11			

Post Hoc Tests

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Siklus0_pH	Formula 0	Formula 1	-.26667 [*]	.04749	.002	-.4188	-.1146
		Formula 2	.01333	.04749	.992	-.1388	.1654
		Formula 3	-.14667	.04749	.059	-.2988	.0054
	Formula 1	Formula 0	.26667 [*]	.04749	.002	.1146	.4188
		Formula 2	.28000 [*]	.04749	.002	.1279	.4321
		Formula 3	.12000	.04749	.130	-.0321	.2721
	Formula 2	Formula 0	-.01333	.04749	.992	-.1654	.1388
		Formula 1	-.28000 [*]	.04749	.002	-.4321	-.1279
		Formula 3	-.16000 [*]	.04749	.040	-.3121	-.0079
	Formula 3	Formula 0	.14667	.04749	.059	-.0054	.2988
		Formula 1	-.12000	.04749	.130	-.2721	.0321
		Formula 2	.16000 [*]	.04749	.040	.0079	.3121
Siklus1_pH	Formula 0	Formula 1	-.25333 [*]	.04262	.002	-.3898	-.1168
		Formula 2	-.05333	.04262	.615	-.1898	.0832
		Formula 3	-.09333	.04262	.206	-.2298	.0432
	Formula 1	Formula 0	.25333 [*]	.04262	.002	.1168	.3898
		Formula 2	.20000 [*]	.04262	.007	.0635	.3365
		Formula 3	.16000 [*]	.04262	.023	.0235	.2965
	Formula 2	Formula 0	.05333	.04262	.615	-.0832	.1898
		Formula 1	-.20000 [*]	.04262	.007	-.3365	-.0635
		Formula 3	-.04000	.04262	.786	-.1765	.0965
	Formula 3	Formula 0	.09333	.04262	.206	-.0432	.2298
		Formula 1	-.16000 [*]	.04262	.023	-.2965	-.0235
		Formula 2	.04000	.04262	.786	-.0965	.1765
Siklus2_pH	Formula 0	Formula 1	-.26333 [*]	.02550	.000	-.3450	-.1817
		Formula 2	-.12333 [*]	.02550	.006	-.2050	-.0417
		Formula 3	-.11333 [*]	.02550	.009	-.1950	-.0317
	Formula 1	Formula 0	.26333 [*]	.02550	.000	.1817	.3450
		Formula 2	.14000 [*]	.02550	.003	.0584	.2216
		Formula 3	.15000 [*]	.02550	.002	.0684	.2316
	Formula 2	Formula 0	.12333 [*]	.02550	.006	.0417	.2050
		Formula 1	-.14000 [*]	.02550	.003	-.2216	-.0584
		Formula 3	.01000	.02550	.978	-.0716	.0916
	Formula 3	Formula 0	.11333 [*]	.02550	.009	.0317	.1950
		Formula 1	-.15000 [*]	.02550	.002	-.2316	-.0684
		Formula 2	-.01000	.02550	.978	-.0916	.0716

Siklus3_pH	Formula 0	Formula 1	-.26000*	.01650	.000	-.3128	-.2072
		Formula 2	-.16000*	.01650	.000	-.2128	-.1072
		Formula 3	-.14333*	.01650	.000	-.1962	-.0905
	Formula 1	Formula 0	.26000*	.01650	.000	.2072	.3128
		Formula 2	.10000*	.01650	.001	.0472	.1528
		Formula 3	.11667*	.01650	.000	.0638	.1695
	Formula 2	Formula 0	.16000*	.01650	.000	.1072	.2128
		Formula 1	-.10000*	.01650	.001	-.1528	-.0472
		Formula 3	.01667	.01650	.748	-.0362	.0695
	Formula 3	Formula 0	.14333*	.01650	.000	.0905	.1962
		Formula 1	-.11667*	.01650	.000	-.1695	-.0638
		Formula 2	-.01667	.01650	.748	-.0695	.0362

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

➔ Data Viskositas Uji Stabilitas *Essence Sheet Mask* pada *Cycling Test* (3 Siklus)

Tests of Normality ^{b,c,d}							
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Siklus0_Viskositas	Formula 0	.385	3	.	.750	3	.000
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.214	3	.	.989	3	.804
	Formula 3	.385	3	.	.750	3	.000
Siklus1_Viskositas	Formula 0	.385	3	.	.750	3	.000
	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
Siklus2_Viskositas	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000
Siklus3_Viskositas	Formula 1	.385	3	.	.750	3	.000
	Formula 2	.385	3	.	.750	3	.000
	Formula 3	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

b. Siklus1_Viskositas is constant when Formula = Formula 3. It has been omitted.

c. Siklus2_Viskositas is constant when Formula = Formula 0. It has been omitted.

d. Siklus3_Viskositas is constant when Formula = Formula 0. It has been omitted.

➔ Aktivitas Antibakteri Minyak Rosemary

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Zona_Hambat	Kontrol +	.184	3	.	.999	3	.927
	Minyak Rosemary	.192	3	.	.997	3	.893

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Zona_Hambat			
Levene Statistic	df1	df2	Sig.
.013	1	4	.915

ANOVA

Zona_Hambat					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	142.984	1	142.984	292.900	.000
Within Groups	1.953	4	.488		
Total	144.937	5			

➔ Aktivitas Antibakteri Sediaan *Essence Sheet Mask* Minyak Rosemary

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Zona_Hambat	Kontrol +	.236	3	.	.977	3	.712
	Formula 0	.175	3	.	1.000	3	1.000
	Formula 3	.196	3	.	.996	3	.878

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Zona_Hambat			
Levene Statistic	df1	df2	Sig.
2.781	2	6	.140

ANOVA

Zona_Hambat					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1102.363	2	551.182	2401.895	.000
Within Groups	1.377	6	.229		
Total	1103.740	8			

Lampiran 2 Hasil Data Saat Optimasi Basis *Essence*

➔ Data pH Basis *Essence*

Formula		Nilai pH			Rata - Rata	%SD
F (A)	5.95	5.96	5.95	5.95	0.01	
F (B)	6.04	6.00	6.08	6.04	0.04	
F (C)	6.14	6.13	6.16	6.14	0.02	

➔ Data Viskositas Basis *Essence*

Formula		Nilai Viskositas			Rata - Rata	%SD
F (A)	113.3	116.6	110.0	113.30	3.30	
F (B)	193.3	190.0	196.7	193.33	3.35	
F (C)	273.3	276.7	270.0	273.33	3.35	

Lampiran 3 Hasil Data Evaluasi Selama 21 Hari (Suhu Ruang)

➔ Data pH Sediaan *Essence Sheet Mask*

Formula	Replikasi	Nilai pH			
	ke -	Hari ke 1	Hari ke 7	Hari ke 14	Hari ke 21
F0	1	5,94	5,83	5,71	5,61
	2	5,90	5,88	5,76	5,65
	3	5,99	5,93	5,84	5,71
	Rata-Rata ± SD	5,94 ± 0,05	5,88 ± 0,05	5,77 ± 0,07	5,66 ± 0,05
F1	1	6,27	6,24	6,11	5,98
	2	6,25	6,19	6,08	5,95
	3	6,20	6,15	6,06	5,84
	Rata-Rata ± SD	6,24 ± 0,04	6,19 ± 0,05	6,08 ± 0,03	5,92 ± 0,07
F2	1	6,36	6,27	6,13	5,61
	2	6,32	6,25	6,14	5,71
	3	6,30	6,24	6,09	5,61
	Rata-Rata ± SD	6,33 ± 0,03	6,25 ± 0,02	6,12 ± 0,03	5,64 ± 0,06
F3	1	6,42	6,20	6,08	5,75
	2	6,46	6,32	6,09	5,82
	3	6,55	6,36	6,06	5,93
	Rata-Rata ± SD	6,48 ± 0,07	6,29 ± 0,08	6,08 ± 0,02	5,83 ± 0,09

➔ **Data Viskositas Sediaan *Essence Sheet Mask***

Formula	Replikasi ke -	Nilai Viskositas (cps)			
		Hari ke 0	Hari ke 7	Hari ke 14	Hari ke 21
F0	1	193,3	190,0	186,7	183,3
	2	190,0	186,7	183,3	180,0
	3	186,7	183,3	180,0	180,0
	Rata-Rata	190,0 ±	186,6 ±	183,3 ±	181,1 ±
	± SD	3,30	3,35	3,35	1,91
F1	1	186,7	180,0	176,7	176,7
	2	180,0	176,7	173,3	170,0
	3	176,7	173,3	173,3	170,0
	Rata-Rata	181,1 ±	176,6 ±	174,4 ±	172,2 ±
	± SD	5,10	3,35	1,96	3,87
F2	1	183,3	176,7	173,3	173,3
	2	180,0	180,0	176,7	170,0
	3	180,0	173,3	170,0	167,7
	Rata-Rata	181,1 ±	176,6 ±	173,3 ±	170,3 ±
	± SD	1,91	3,35	3,35	3,81
F3	1	180,0	176,7	170,0	167,7
	2	180,0	173,3	167,7	163,3
	3	176,7	167,7	163,3	163,3
	Rata-Rata	178,9 ±	175,5 ±	170,3 ±	164,7 ±
	± SD	1,91	1,96	2,81	2,54

Lampiran 4 Data Evaluasi Selama *Cycling Test* (3 Siklus)

➔ Data pH Sediaan *Essence Sheet Mask*

Formula	Replikasi	Nilai pH pada siklus ke -			
		0	1	2	3
F0	1	5,61	5,79	5,78	5,76
	2	5,65	5,68	5,71	5,75
	3	5,71	5,75	5,76	5,78
	Rata-Rata ± SD	5,66 ± 0,05	5,74 ± 0,06	5,75 ± 0,04	5,76 ± 0,02
F1	1	5,98	6,00	6,02	6,02
	2	5,95	5,98	6,00	6,02
	3	5,84	6,00	6,02	6,03
	Rata-Rata ± SD	5,92 ± 0,07	5,99 ± 0,01	6,01 ± 0,01	6,02 ± 0,01
F2	1	5,61	5,88	5,89	5,91
	2	5,71	5,75	5,84	5,91
	3	5,61	5,75	5,89	5,95
	Rata-Rata ± SD	5,64 ± 0,06	5,79 ± 0,08	5,87 ± 0,03	5,92 ± 0,02
F3	1	5,75	5,79	5,84	5,89
	2	5,82	5,82	5,84	5,89
	3	5,84	5,84	5,91	5,94
	Rata-Rata ± SD	5,80 ± 0,05	5,83 ± 0,05	5,86 ± 0,04	5,91 ± 0,03

➔ **Data Viskositas Sediaan *Essence Sheet Mask***

Formula	Replikasi	Nilai pH (Siklus 0-3)			
		0	1	2	3
F0	1	183,3	167,7	160,0	156,7
	2	180,0	163,3	160,0	156,7
	3	180,0	163,3	160,0	156,7
	Rata-Rata	181,1 ±	164,7 ±	160,0 ±	156,7 ±
	± SD	1,90	2,50	0,00	0,00
F1	1	176,7	186,7	193,3	196,7
	2	170,0	173,3	193,3	196,7
	3	170,0	173,3	190,0	193,3
	Rata-Rata	172,2 ±	177,7 ±	192,2 ±	195,5 ±
	± SD	3,90	7,70	1,90	2,00
F2	1	173,3	196,7	210,0	216,7
	2	170,0	196,7	213,3	216,7
	3	167,7	193,3	213,3	223,3
	Rata-Rata	170,3 ±	195,5 ±	212,2 ±	218,9 ±
	± SD	2,80	2,00	1,90	3,80
F3	1	167,7	196,7	216,7	223,3
	2	163,3	196,7	216,7	236,7
	3	163,3	196,7	213,3	236,7
	Rata-Rata	164,7 ±	196,7 ±	215,5 ±	235,5 ±
	± SD	2,54	0,00	1,96	1,96

Lampiran 5 Data Evaluasi Sediaan *Essence Sheet Mask* Pasaran

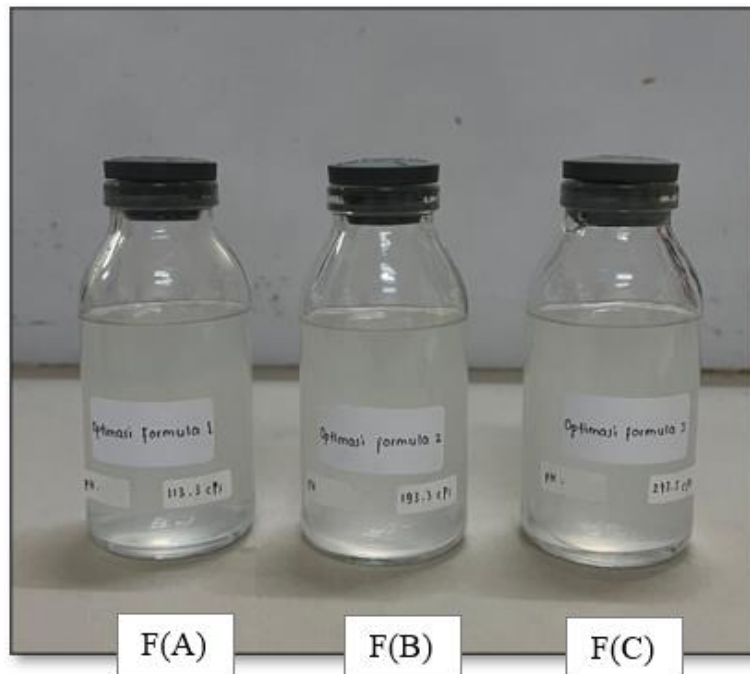
➔ **Data pH dan Viskositas *Essence Sheet Mask* Pasaran**

Sediaan	Nilai pH			Rata - Rata	%SD
Pasaran	6.16	6.14	6.11	6.14	0.03

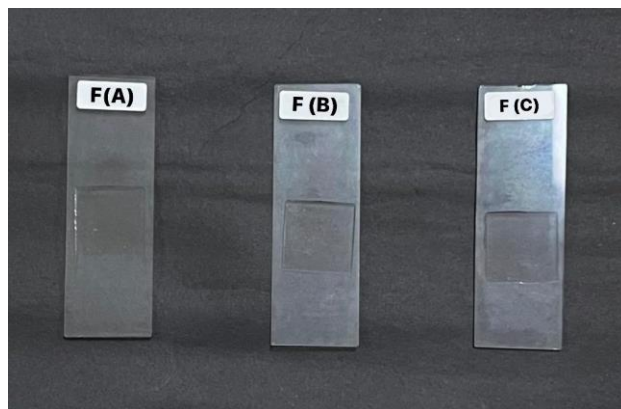
Sediaan	Nilai Viskositas			Rata - Rata	%SD
Pasaran	246.7	250.0	263.3	253.33	8.79

Lampiran 6 Dokumentasi Hasil Penelitian

→ Optimasi Basis *Essence*



→ Homogenitas Basis *Essence*



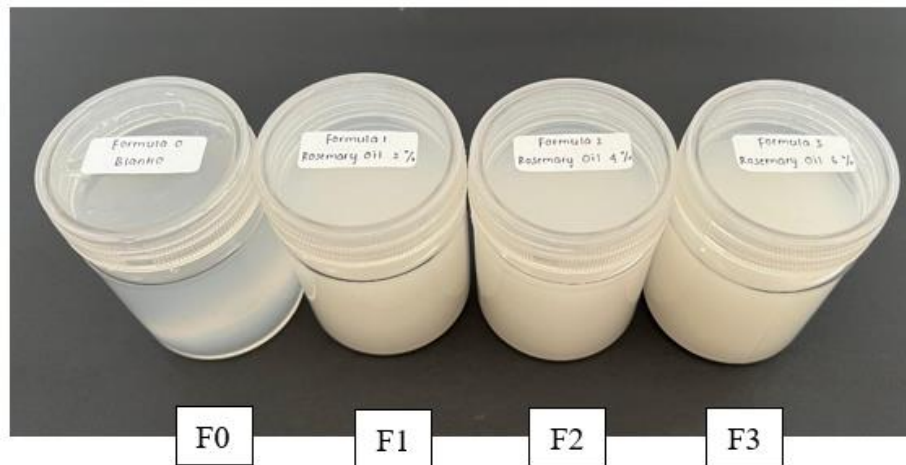
Keterangan :

F(A) : Konsentrasi xanthan gum 0,2%

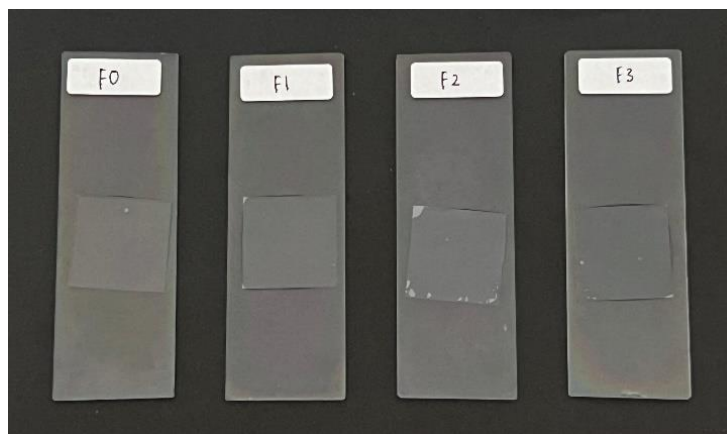
F(B) : Konsentrasi xanthan gum 0,3%

F(C) : Konsentrasi xanthan gum 0,4%

→ Formula F0, F1, F2 dan F3



→ Uji Homogenitas



Keterangan :

F0 : Blanko (tanpa minyak rosemary)

F1 : Essence dengan minyak rosemary 2%

F2 : Essence dengan minyak rosemary 4%

F3 : Essence dengan minyak rosemary 6%

→ Uji pH (Suhu Ruang)

F0				
	Hari ke 1	Hari ke 7	Hari ke 14	Hari ke 21
F1				
	Hari ke 1	Hari ke 7	Hari ke 14	Hari ke 21
F2				
	Hari ke 1	Hari ke 7	Hari ke 14	Hari ke 21
F3				
	Hari ke 1	Hari ke 7	Hari ke 14	Hari ke 21

➔ Uji Viskositas (Suhu Ruang)

F0



Hari ke 1



Hari ke 7



Hari ke 14



Hari ke 21

F1



Hari ke 1



Hari ke 7



Hari ke 14



Hari ke 21

F2



Hari ke 1



Hari ke 7



Hari ke 14



Hari ke 21

F3



Hari ke 1



Hari ke 7

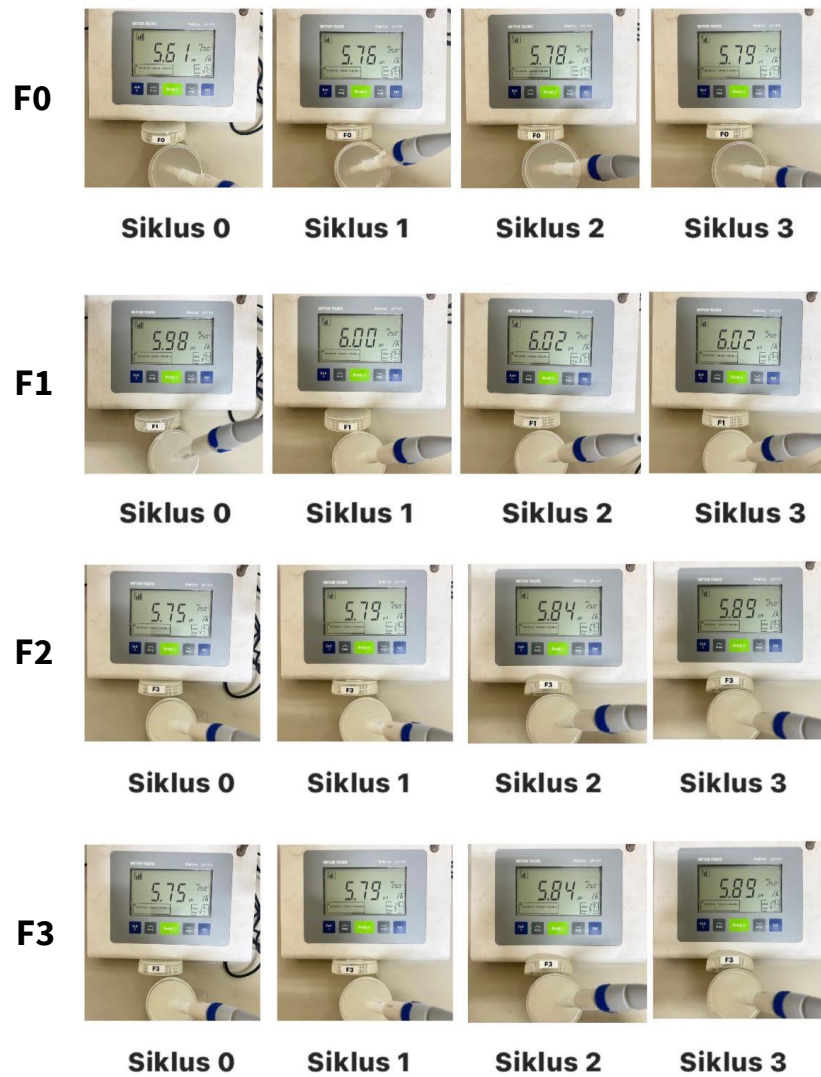


Hari ke 14



Hari ke 21

→ Uji pH (Stabilitas *Cycling Test*)



➔ Uji Viskositas (Stabilitas *Cycling Test*)

F0



Siklus 0

Siklus 1

Siklus 2

Siklus 3

F1



Siklus 0

Siklus 1

Siklus 2

Siklus 3

F2



Siklus 0

Siklus 1

Siklus 2

Siklus 3

F3



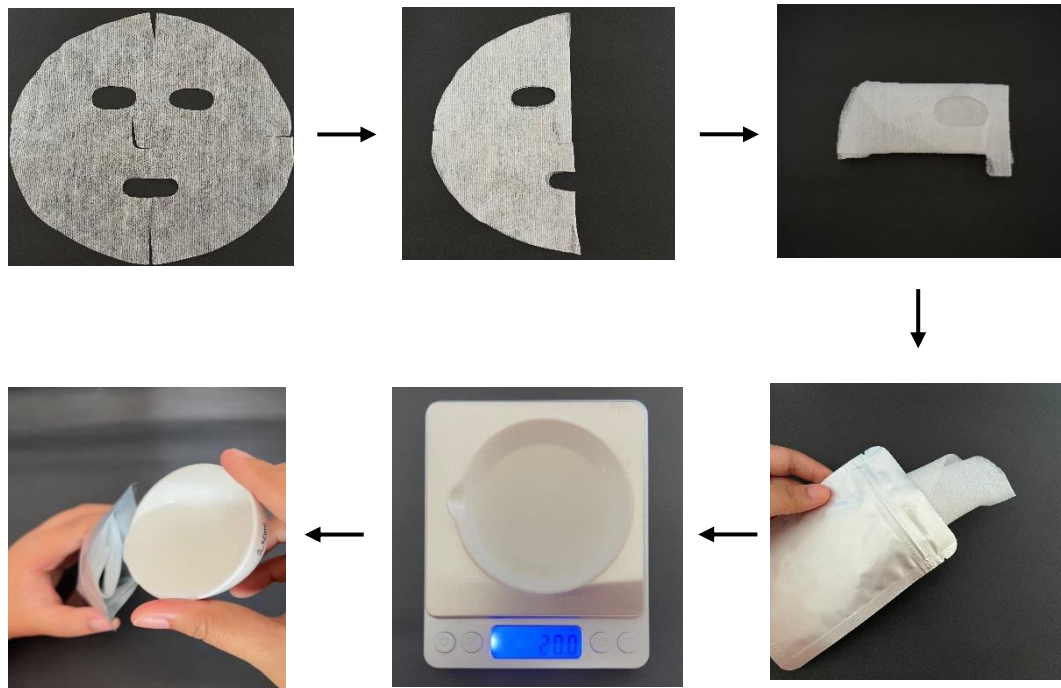
Siklus 0

Siklus 1

Siklus 2

Siklus 3

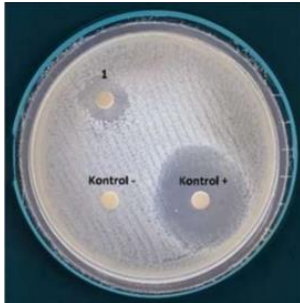
Lampiran 7 Pengemasan *Sheet Mask*



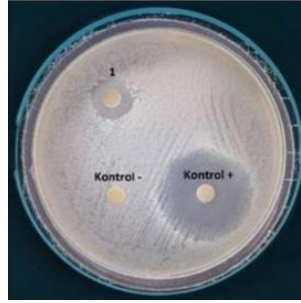
Sediaan *Essence Sheet Mask*
Minyak Rosemary

Lampiran 8 Uji Aktivitas Antibakteri

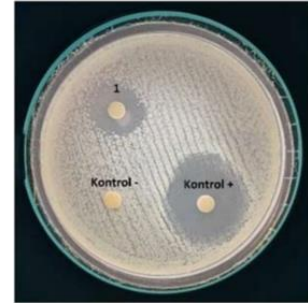
➔ Minyak Rosemary



Replikasi 1

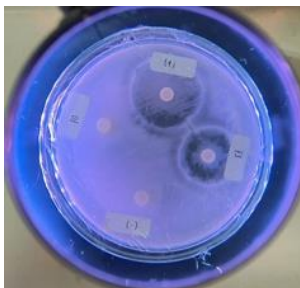


Replikasi 2

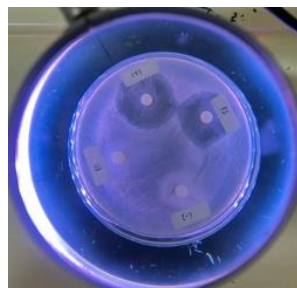


Replikasi 3

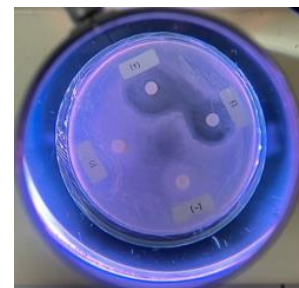
➔ Sediaan *Essence Sheet Mask* F0 dan F3



Replikasi 1



Replikasi 2



Replikasi 3

Lampiran 9 Hasil Evaluasi Fisik Sediaan *Essence Sheet Mask* Pasaran

➔ Sediaan *Essence Sheet Mask* Pasaran (Bioaqua)



➔ Homogenitas



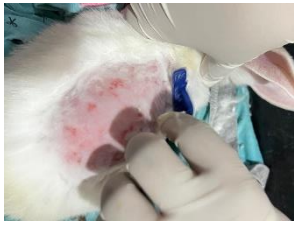
➔ pH

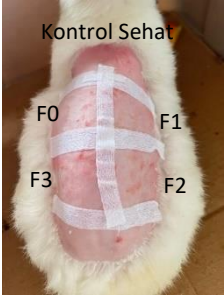
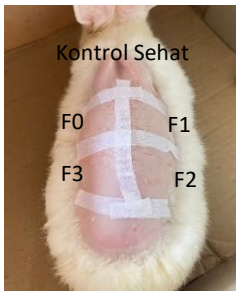


➔ Viskositas



Lampiran 10 Prosedur Uji Iritasi

 Perlakuan terhadap kelinci selama beberapa hari	 Menggunting bulu kelinci yang tebal	 Penipisan bulu kelinci
 Setelah pencukuran kulit kelinci diberikan alkohol untuk mensterilkannya kemudian ditutup kassa selama 24 jam	 Kulit kelinci ditempelkan plester hypafix sebagai pembatas pada punggung untuk selanjutnya diberi perlakuan terhadap sediaan	 Sediaan uji ditimbang 0,5 gram baik F0, F1, F2, dan F3 kemudian di oleskan
 Tahap pengolesan pada punggung kelinci	 Pengolesan dilakukan secara steril dan jangan sampai sediaan uji dapat dijilat dengan kelinci	 Tutup bagian punggung kelinci dengan kassa lalu diamati pada 24 dan 72 jam setelahnya

 Kontrol Sehat F0 F1 F3 F2	 Kontrol Sehat F0 F1 F3 F2	 Kontrol Sehat F0 F1 F3 F2
Hasil setelah 24 jam	Hasil setelah 48 jam	Hasil setelah 72 jam

Lampiran 11 Uji Hedonik

Link Kuisisioner : <https://forms.gle/mrEJ8bfB3joyu6CU8>



Formulir Pengujian Hedonik Terhadap Sediaan *Essence Sheet Mask* Minyak Rosemary (*Rosemarinus officinalis* Oil)

Bismillahirrahmanirrahim.

Saya Tiara Dwi Adisty sebagai mahasiswa S1 Farmasi Universitas Bhakti Kencana tingkat akhir yang sedang melaksanakan penelitian untuk memenuhi syarat dari Tugas Akhir. Dengan ini meminta teman - teman untuk berpartisipasi/sukarela mengisi penilaian pada penelitian saya yang berjudul "Formulasi dan Evaluasi *Essence Sheet Mask* dari Minyak Rosemary (*Rosemarinus officinalis* Oil) serta Uji Aktivitasnya sebagai antibakteri terhadap *Propionibacterium acne*.

Tujuan dari penelitian ini yaitu untuk mengetahui evaluasi juga aktivitas antibakteri yang baik dari sediaan *essence sheet mask* yang saya buat. Oleh karena itu, saya memohon ketersediaan teman - teman untuk mengisi formulir penilaian kesukaan (uji hedonik) terhadap sediaan yang saya sajikan.

Terimakasih

201ff03149@bku.ac.id [Ganti akun](#)

Tidak dibagikan

Parameter penilaian terhadap F1, F2 dan F3 :

- Warna
- Tekstur
- Aroma

Skala penilaian :

- 1 untuk sangat tidak suka
- 2 untuk tidak suka
- 3 untuk suka
- 4 untuk sangat suka

Lampiran 12 Certificate Of Analysis

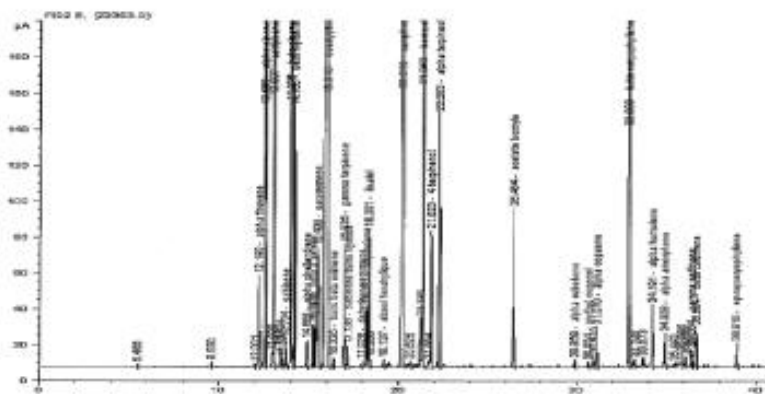


TECHNICAL INFORMATIONS (COA)

Product Name	:	Rosemary Essential Oil
Botanical Name	:	Rosmarinus officinalis
Description	:	Clear colorless to pale
Specific Gravity (20° C)	:	0.9126
Refractive Index (20° C)	:	1.4664
Optical Rotation	:	+9.69°
Shelf Life / Batch	:	24 Months / 23EO1191

MAIN CONSTITUENTS - GC Analysis

1. 1,8-Cineole	49.15%	6. β -Caryophyllene	3.35%
2. Camphre	10.23%	7. Borneol	2.67%
3. α -Pinene	11.16%	8. α -Terpineol	1.68%
4. β -Pinene	7.23%	9. Bornyl acetate	0.87%
5. Camphene	4.31%	10. Sabinene	0.14%



Xanthan Gum

青岛艾伊德生化有限公司

QINGDAO ICD BIOCHEMISTRY CO.,LTD.

CERTIFICATE OF ANALYSIS

PRODUCTION NAME: XANTHAN GUM FOOD GRADE 80MESH
BATCH NO.: 202310A-N93
PRODUCTION DATE: OCT.17,2023
EXPIRY DATE: OCT.16,2025
QUANTITY:4500KGS/180DRUMS

Parameters	Specs	Results
Appearance	White-Like or Light-Yellow Powder	Conform
Particle Size (mesh)	100%through 60 mesh, not less than 95% through 80 mesh	80
Viscosity (1% KCL, cps)	1200-1700	1600
Shear ratio	≥6.5	7.6
V1/V2	1.02~1.45	Conform
PH (1% solution)	6.0-8.0	7.02
Loss on Drying (%)	≤15	8.09
Ashes (%)	≤16	9.88
Pb (ppm)	≤2	Conform
Total Nitrogen(%)	≤1.5	Conform
Pyruvic Acid(%)	≥1.5	Conform
Total Plate Count(CFU/g)	≤2000	Conform
Moulds/Yeasts(CFU/g)	≤100	Conform
Coliform (MPN/g)	≤0.3	Conform
Salmonella	Absent	Conform

For and on behalf of
QINGDAO ICD BIOCHEMISTRY CO., LIMITED
青岛艾伊德生化有限公司

吕建辉

Authorized Signature(s)

PEG-40 Hydrogenated Castor Oil


PETRONAS

CERTIFICATE OF ANALYSIS
 Page 2 of 2

CARBOWAX POLYETHYLENE GLYCOL 400 230 KG STEEL DRUM

Carrier/Vehicle ID : SIKU 3012937
 Customer P.O. No. : 5210034754
 Sales Order No. : 100447178
 Delivery Qty : 55.000
 Delivery Unit : DR

Material ID : 72000050
 Customer No. : 7790000488
 Batch No. : X22694
 Delivery No. : 500836245
 Inspection Dt. : 31 OCT 2022
 Exp Date : 31 OCT 2025

NOTE: THE TEST CHARACTERISTICS AND THEIR UNITS, TOLERANCES AND RESULTS LISTED BELOW WILL VARY DEPENDING ON THE BUSINESS, CUSTOMER & MATERIAL REQUIREMENTS.

Test Characteristics	Results	Unit	Tolerance Limits	Method
MOLECULAR WEIGHT	400	MWU	380 - 420	1B-ZMETH-1.2B
PH5% AQUEOUS 25C	5.5	NOU	4.5 - 7.5	1B-ZMETH-16.2B
COLOR	3	PTCO	0 - 18	1B-ZMETH-3.8c
WATER	0.1	WTP	0.0 - 0.5	1B-ZMETH-24C
ACIDITY AS ACETIC ACID	0.01	WTP	0.00 - 0.02	1B-ZMETH-1A
VISCOSITY 210F	7.3	CST	6.8 - 8.0	1B-ZMETH-23D
COMPLETE & COLOR OF SOL	PASS-<= Slightly hazy	-	-	DOWM-101924-E01

This product meets the Product Sales Specification. This result is based on the sample being tested.

This is a computer generated document. No signature is required.

PETRONAS CHEMICALS MARKETING (LABUAN) LTD (LL08320)
 GST Registration Number: 002110029824
(Licensed as Labuan International Commodity Trading Company, LPSSA License No. LTC/14/0021)
 Registered Office: Unit Level 13(A), Main Office Tower, Financial Park Labuan, Jalan Merdeka, 87000 P.T Labuan, Malaysia.
 Business Office: Level 34, Tower 1, PETRONAS Twin Towers, Kuala Lumpur City Centre, 50088 Kuala Lumpur, Malaysia.

Natrium Benzoate

CO: 8/11/23 230337
13.23.49 17/07/23 9/23

Emerald Performance Materials™
Kalama Chemical

PAGE 1

Certificate of Analysis

Shipment Number SB00067000 Quantity Shipped 24.750 KG Order Number B051463 Date Ship 17/07/23 Customer Order Number 230337 Batch Number 2326 Prod. in week of dd/mm/yy 26/06/23 Expiration Dt 25/06/26	Product Description PUROX®S GRAINS PURE GRADE SODIUM BENZOATE IN 25 KG BAGS / 55 BAGS PER PALLET CAS Number: 532-32-1 EINECS: 208-534-8 REACH: 01-2119460683-35-0000 Vehicle ID: TCLU8879888
---	---

Test Description	Minimum	Maximum	Test Result
Acidity mg NaOH/g	0,00	0,40	0,00
Alkalinity mg HCl/g	0,00	0,37	0,05
Assay %(m/m) 1)	99,90	100,00	99,99
Color(10%(m/m) sol in H2O) APH	0	10	1
Loss on Drying %(m/m)	0,0	1,0	0,2
Phenol mg/kg	0,0	2,0	0,1
Appearance			WHITE GRAN
Odor			ODORLESS
Identification	To Pass	--	Passes Test
Insoluble Matter	To Pass	--	Passes Test
Taste and Odor	To Pass	--	Passes Test
Heavy Metals mg/kg	0	10	<10
Iron mg/kg	0	1	<1
Mercury mg/kg	0,0	0,1	<0,1
Sulphate mg/kg	0	50	<50
Chloride mg/kg	0	50	<50
Halogenated Compounds mg/kg	0	25	<25
Total Chlorine mg/kg	0	75	<75
Phthalic Acid mg/kg	0	50	<50
Turb (10%(m/m) sol water) NTU	0,0	0,5	<0,5
Oxidiz Substs mEq.02molKMnO4/g	0,00	0,10	<0,10
Organic Volatile Impurities	To Pass	--	Passes Test
Polycyclic Acids	To Pass	--	Passes Test

* Purox S grains, pure grade sodium benzoate
 * contains <0,5 mg/kg: Cd, Pb and <1 mg/kg: Ag, As,
 * Bi, Co, Cr, Cu, Mn, Ni, Sb, Sn, V, Zn.
 * 1) Assay: 100% = total organic impurities
 * This material meets the latest requirements
 * of FCC, USP/NF, Ph.Eur, BP, JP, EP11.
 * All tests are performed according to EKC BV
 * Methods of Analysis (latest edition).

Yours Faithfully,
 Walter Mekkelholt, Quality Manager
 Certificate is password controlled, computer generated, thus not requiring a signature

Address Fascinatio Boulevard 210 3065 WB Rotterdam The Netherlands	Manufacturing Address Montrealweg 15 3197 KJ Rotterdam The Netherlands	Communication www.emeraldmaterials.com E-mail Purox.info@emeraldmaterials.com FAX +31 (0)20 794 8466
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Emerald Kalama Chemical, B.V.

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Propilenglikol

Date 2023-06-17 (YYYY-MM-DD) Time 13:48:15 (Greenwich Mean Time) Page 1 of 4

 DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED					
Certificate of Analysis					
Product Number		00000114877			
Product Name		Propylene Glycol USP/EP			
Delivery No.		825667545 / 000010			
Order Number		115073052			
Shipping Units		80.000 DR			
Date Shipped		2023-06-16 (YYYY-MM-DD)		Container ID	BEAU2349827
Shipment No.		42869510		Specification Number	000000059518
Batch Number		C815N62R31			
Seal Number		HAS1203029			
Expiration Date		2025-06-01 (YYYY-MM-DD)			
Manufacturing Date		2023-06-02 (YYYY-MM-DD)			
Quantity		80.000 DR			
Net Weight		17200.000 KG			
Manufacturing Plant		MTP AIE PG			
Manufacturer Address		10/4 Moo 2 ASIA IND EST BANCHANG Rayong 21130			
Manufacturer: Dow Chemical Thailand Ltd					
It is hereby certified that the material indicated above has been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and, unless agreed otherwise conforms in all respects to the specification relevant thereto and it meets all requirements of the current United States Pharmacopoeia, current Food Chemical Codex, current European Pharmacopoeia and current Pharmacopoeia of Japan.					
Test	Unit	Lower Limit	Upper Limit	Value	Method
Assay	%	99.80	-	99.97	Current USP
M Acidity	ml	-	0.20	0.02	Current USP
M Chlorides	ppm	-	70	< 70	Current USP
O Residue on Ignition per 50g	mg	-	3.50	2.24	Current USP
M Specific Gravity @ 25/25degC		1.035	1.037	1.036	Current USP
M Spec. Grav. @ 20C		1.0376	1.0389	1.0383	ASTM D4052
M Sulfate	ppm	-	60	< 60	Current USP

Date 2023-06-17 (YYYY-MM-DD) Time 13:48:15 (Greenwich Mean Time) Page 2 of 4

 DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED			 Thailand		
Water Content	%	-	0.200	0.010	Current USP
M ID Test A matches IR scan	-	-	-	Pass	Current USP
ID Test B Limit of Ethylene Glycol	-	-	-	Pass	Current USP
ID Test B Limit of Diethylene Glycol	-	-	-	Pass	Current USP
ID Test C Matches GC Scan	-	-	-	Pass	Current USP
M Acidity	ml	-	0.05	0.01	Current EP
M Boiling Point	°C	184	189	184	Current EP
M Clarity	-	-	-	Pass	Current EP
M Color	-	-	-	Pass	Current EP
O Melting Point	°C	121	128	126	Current EP
M Oxidising Substances 0.05M sodium thiosulfate	ml	-	0.20	0.03	Current EP
M Reducing Substances	-	-	-	Pass	Current EP
M Refractive Index @ 20degC		1.431	1.433	1.433	Current EP
M Relative Density @ 20/20degC		1.035	1.040	1.038	Current EP
O Sulfated ash	%	-	0.0100	0.0042	Current EP
Water Content	%	-	0.200	0.010	Current EP
Assay	%	99.80	-	99.97	Current FCC
M Acidity	-	-	-	Pass	Current FCC
M Appearance clear & colorless	-	-	-	Pass	Current FCC
M Distillation, IBP	°C	185.0	-	185.0	Current FCC
M Distillation, DP	°C	-	189.0	187.0	Current FCC
O Lead (Pb)	ppm	-	1.0	< 1.0	Current FCC
M Identification matches IR scan	-	-	-	Pass	Current FCC
O Residue on Ignition	%	-	0.0070	0.0031	Current FCC

Date 2023-06-17 (YYYY-MM-DD) Time 13:48:15 (Greenwich Mean Time) Page 3 of 4

 DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED					
M Specific Gravity @ 25/25degC		1.035	1.037	1.036	Current FCC
Water Content	%	-	0.200	0.010	Current FCC
M Acidity	-	-	-	Pass	Current JP
M Arsenic	ppm	-	2.0	< 2.0	Current JP
M Chlorides	%	-	0.007	< 0.007	Current JP
M Distilling Range 184 - 189 degC	% vol	95	-	99	Current JP
M Glycerine (Odor)	-	-	-	Pass	Current JP
M Heavy Metals	ppm	-	5.0	< 5.0	Current JP
O Melting Point	°C	174	178	174	Current JP
M Odor	-	-	-	Pass	Current JP
O Residue on Ignition	%	-	0.0050	0.0048	Current JP
M Specific Gravity @ 20/20degC		1.035	1.040	1.038	Current JP
M Sulfate	%	-	0.002	< 0.002	Current JP
Water Content	%	-	0.500	0.010	Current JP
Acidity as acetic acid	%	-	0.0020	0.0002	DOWM 101370
Appearance clear, free of suspended matter	-	-	-	Pass	Visual
Chlorides	ppm	-	1.0	< 1.0	DOWM 101867
Color, Pt-Co	-	-	10	2	ASTM D5386
Dimer, Trimer & Higher Polymers	%	-	0.100	0.032	DOWM 100687
Ethylene Glycol	%	-	0.0080	< 0.0080	DOWM 100687
Diethylene Glycol	%	-	0.0080	< 0.0080	DOWM 100687
Odor practically odorless	-	-	-	Pass	Olfactory
Iron	ppm	-	0.30	< 0.01	ASTM E394
Note 1: Values reported for Assay, Ethylene Glycol and Diethylene Glycol under USP and for Assay under FCC are obtained using the validated equivalent Dow GC Method DOWM 100687.					
M:Quarterly Sample					

Date 2023-06-17 (YYYY-MM-DD) Time 13:48:15 (Greenwich Mean Time) Page 4 of 4

 DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED	
O:Annual Sample	
Plant Quality Coordinator	
For inquiries please contact Customer Service or local sales	
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Gliserin


PT. WILMAR NABATI INDONESIA
 Quality Control Department


 Komite Akreditasi Nasional
 Laboratorium Pengaplikasian

FNNWA-QC-18-011
 REV 02 : 25.09.2020

Date : 14/August/2023

CERTIFICATE OF ANALYSIS

Product : WILFARIN USP-997 : REFINED GLYCERINE USP GRADE
 Manufactured Date : AUGUST 09, 2023
 Best Before : AUGUST 09, 2025
 Date of Sample Received : AUGUST 09, 2023
 Date of Analysis : AUGUST 09, 2023
 Lot No. : G230809-21W

Parameter	Unit	Result	Specification	Test Method
Appearance *)		Clear, Transparent, Viscous Liquid	Clear, Transparent, Viscous Liquid	Visual
Identification test A		Conform	Conform	USP 43 : 2020 (197 F)
Identification test B *)				
- Diethylene Glycol	%	<0.10	0.1 max	USP 43 : 2020 (P.1967)
- Ethylene Glycol	%	<0.10	0.1 max	USP 43 : 2020 (P.1967)
Identification test C		Conform	Conform	USP 43 : 2020 (P.1967)
Assay	%	99.8	99 - 101	USP 43 : 2020 (P.1967)
Chloride	ppm	<10	10 max	USP 43 : 2020 (221)
Sulfate	ppm	<20	20 max	USP 43 : 2020 (221)
Residue on Ignition	%	0.006	0.01 max	USP 43 : 2020 (281)
Related Compounds *)				
Individual Impurities	%	<0.1	0.1 max	USP 43 : 2020 (P.1967)
Total Impurities	%	<1.0	1.0 max	USP 43 : 2020 (P.1967)
Chlorinated Compounds *)	ppm	<30	30 max	USP 43 : 2020 (P.1968)
Fatty Acids & Esters (as mL of 0.5N NaOH/50 g)		0.25	1 max	USP 43 : 2020 (P.1968)
Color (mL FeCl ₃) *)	-	<0.4	0.4 max	USP 43 : 2020 (P.1968)
Specific Gravity @ 25	-	1.2614	1.2612 min	USP 43 : 2020 (841)
Water Determination	%	0.10	0.3 max	USP 43 : 2020 (921)
Color (APHA) *)	-	5	10 max	AOCS Ea 9-85
Heavy Metal as Pb	ppm	< 5	5 max	USP 41: 2016 (231)

Remark :
 *) not accredited parameter

Certified Correct

Riko Julianti
 QC Head Central Lab

The result of these test relate only to the sample (s) submitted. The publication and duplicating of our test reports and expert opinions for advertising purpose as well as their use for any other purposes in extracts requires our written approval.

Factory :
 Jl. Kapten Dermo Sugondo No. 58
 Gresik - 61124, East Java - Indonesia
 Tel : +6231-28932555 / +6231-28932222

Page 1 Of 1

Aquades

Jenis Pemeriksaan	Syarat SNI 6241:2015	Hasil
Pemerian	Cairan jernih, tidak berbau dan berasa normal.	Sesuai
Konduktivitas	Maks 1,3 $\mu\text{S}/\text{cm}$	0,5 $\mu\text{S}/\text{cm}$
pH	5 – 7,5	6,0
Zat yang terlarut (TDS)	Maks. 10	0
Perak (Ag)	negatif	negatif
Timbal (Pb)	negatif	negatif
Tembaga (Cu)	negatif	negatif
Kadmium (Cd)	negatif	negatif
Merkuri (Hg)	negatif	negatif
Uji Mikroba		
• <i>Coliform</i> (SNI 01-2897-1992)	MPN/100 ml	< 1 *
• <i>E. Coli</i> (SNI 01-2897-1992)	MPN/100 ml	< 1 *
• <i>Pseudomonas aeruginosa</i> (SNI-01-3553-2006)	Koloni / ml	Negatif
• <i>Salmonella sp</i> (SNI-01-3553-2006)	/25 ml	Negatif

*Nilai <2 adalah nilai paling kecil dari tabel MPN Seri 5

Kesimpulan : Memenuhi Syarat

MHA (Mueller Hinton Agar)



Specification

1.05437.0500 MUELLER-HINTON agar for testing the sensitivity of clinically important pathogens

Specification

Appearance (clearness)	clear to opalescent
Appearance (colour)	yellowish-brown
pH-value (25 °C)	7.2 - 7.6
Solidification behaviour (2 hrs., 40 °C)	liquid

Specification

Inhibition zone diameter/Ampicillin 10 µg (Escherichia coli ATCC 25922 (WDCM 00013))	16 - 22	mm
Inhibition zone diameter/Tetracyclin 30 µg (Escherichia coli ATCC 25922 (WDCM 00013))	18 - 25	mm
Inhibition zone diameter/Gentamicin 10 µg (Escherichia coli ATCC 25922 (WDCM 00013))	19 - 26	mm
Inhibition zone diameter/Polymyxin B 300 U/IE (Escherichia coli ATCC 25922 (WDCM 00013))	12 - 17	mm
Inhibition zone diameter/SXT 1.25 µg + 23.75 µg (Escherichia coli ATCC 25922 (WDCM 00013))	24 - 32	mm
Inhibition zone diameter/Ampicillin 10 µg (Staphylococcus aureus ATCC 25923 (WDCM 00034))	27 - 35	mm
Inhibition zone diameter/Tetracyclin 30 µg (Staphylococcus aureus ATCC 25923 (WDCM 00034))	19 - 28	mm
Inhibition zone diameter/Gentamicin 10 µg (Staphylococcus aureus ATCC 25923 (WDCM 00034))	19 - 27	mm
Inhibition zone diameter/Polymyxin B 300 U/IE (Staphylococcus aureus ATCC 25923 (WDCM 00034))	7 - 13	mm
Inhibition zone diameter/SXT 1.25 µg + 23.75 µg (Staphylococcus aureus ATCC 25923 (WDCM 00034))	24 - 32	mm
Inhibition zone diameter/Gentamicin 10 µg (Pseudomonas aeruginosa ATCC 27853 (WDCM 00025))	16 - 23	mm
Inhibition zone diameter/SXT 1.25 µg + 23.75 µg (Enterococcus faecalis ATCC 33186)	≥ 20	mm

Incubation: 24 hrs.; 35 °C; aerobic.

1.05437.0500 MUELLER-HINTON agar for testing the sensitivity of clinically important pathogens

Stefanie Fischer
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.

P. acnes

thermoscientific

Thermo Fisher Scientific
Microbiology
12076 Santa Fe Trail Drive
12230 Santa Fe Trail Drive
Lenexa, KS 66215
800.255.6730
800.447.5761 fax
www.thermofisher.com

Certificate of Analysis

Product Name: P. acnes ATCC 6919 PK/5 (F2)
Lot Number: 284254

Product Number: R4607101
Expiration Date: 2022-10-20
(YYYY-MM-DD)

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820. Representative samples were tested per Remel Inc., a part of Thermo Fisher Scientific Quality Control specifications and were found to meet performance criteria for this product.

Purity:

Standardized aliquots of the rehydrated product are inoculated onto nonselective media and examined for pure growth following the appropriate incubation. Selective and Differential media are also tested where applicable.

Viability And Quantification:

Each organism is recovered from the preserved state within the required time frame and at an acceptable level. Passage number is stated as the current preserved state.

Macroscopic And Microscopic Morphology:

Colony morphology is consistent with documented referenced description.
Traditional staining is performed.

Characterization:

Organism exhibits characteristic biochemical, enzymatic, genotypical and/or biochemical reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

SALINAN TERKENDALI
PT Agritama Sinergi Inovasi (AGAVI)

CFU/loop: >10(4)

Gram Reaction: Gram Positive Rod

Passage: 3

Identification Profile: MicroSEQ® or Vitek® 2

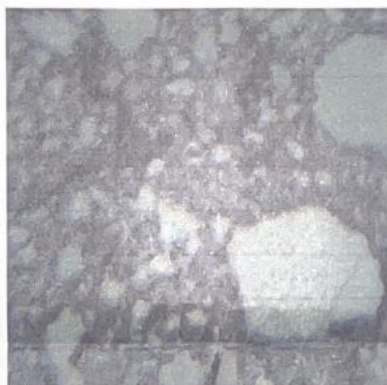
Appearance: Preserved Gel Matrix suspended in inoculating loop

pH: N/A

Pewarnaan Gram Bakteri

Hasil Pewarnaan Gram pada Kultur *Propionibacterium acnes*

PC003140324



Lampiran 13 Hasil Cek Plagiarisme

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KARTU BIMBINGAN TUGAS AKHIR

Pembimbing Serta	: Ira Adiyati Rum, M.Si
Nama Mahasiswa	: Tiara Dwi Adisty
NPM	: 201FF03149
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi

[illegible]

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: apt. Deny Puriyani Azhary, M.Si
Nama Mahasiswa	: Tiara Dwi Adisty
NPM	: 201FF03149
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	16 Maret 2024	11.30	Whatsapp	Membahas evaluasi yg akan dilakukan untuk optimasi basis	<i>Deny</i>
2	18 Maret 2024	14.30	Whatsapp	Membahas formula blanko	<i>Deny</i>
3	25 Maret 2024	09.00	Lab. Farmasetika	Membahas hasil optimasi basis	<i>Deny</i>
4	29 April 2024	10.00	Google Meet	Presentasi Laporan Kemajuan 1	<i>Deny</i>
5	17 Mei 2024	14.00	Whatsapp	Konsultasi hasil formula	<i>Deny</i>
6	25 Mei 2024	09.00	Zoom Meeting	Presentasi Laporan Kemajuan 2	<i>Deny</i>
7	28 Mei 2024	16.30	Whatsapp	Konsultasi evaluasi formula	<i>Deny</i>
8	11 Juni 2024	17.00	Whatsapp	Bimbingan hasil sediaan	<i>Deny</i>
9	26 Juni 2024	12.00	Whatsapp	Konsultasi evaluasi stabilitas sediaan	<i>Deny</i>
10	5 Juli 2024	09.15	Whatsapp	Konsultasi terkait uji hedonik kuisioner	<i>Deny</i>
11	10 Juli 2024	14.00	Kampus UBK	Bimbingan BAB 4 dan 5	<i>Deny</i>
 Jl. Soekarno Hatta No 754 Bandung					

Catatan : Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.
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KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Serta	: Ira Adiyati Rum, M.Si
Nama Mahasiswa	: Tiara Dwi Adisty
NPM	: 201FF03149
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi

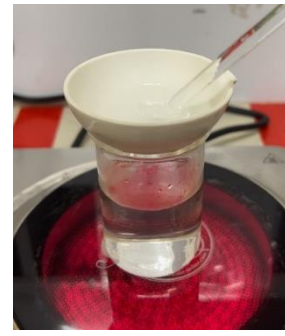
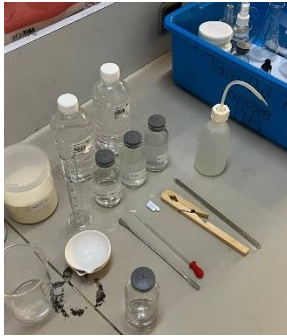
No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	27 Februari 2024	10.00	Lab. Mikrobiologi	Pengarahan terkait persiapan penelitian di Lab. Mikrobiologi	
2	27 Maret 2024	10.15	Whatsapp	Konsultasi terkait inokulasi bakteri	
3	29 Maret 2024	14.40	Whatsapp	Konsultasi terkait hasil pengujian aktivitas antibakteri dan proses destruksi	
4	26 April 2024	08.30	Google Meet	Presentasi Laporan Kemajuan 1	
5	02 Mei 2024	13.00	Lab. Mikrobiologi	Bimbingan hasil pengujian aktivitas antibakteri	
6	03 Mei 2024	09.15	Whatsapp	Konsultasi terkait pengenceran suspensi bakteri	
7	19 Mei 2024	16.00	Google Meet	Bimbingan formula dan konsultasi untuk pengujian aktivitas antibakteri selanjutnya	
8	25 Mei 2024	09.00	Zoom Meeting	Presentasi Laporan Kemajuan 2	
9	12 Juni 2024	08.00	Whatsapp	Konsultasi hasil uji antibakteri	
10	27 Juni 2024	09.00	Whatsapp	Konsultasi hasil uji antibakteri	
11	08 Juli 2024	13.00	Google Meet	Bimbingan BAB 4 & 5	

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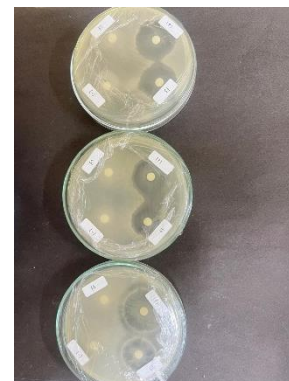
Lampiran 15 Dokumentasi Kegiatan Penelitian



Prepare Alat dan Bahan



Pembuatan Essence Sheet Mask



Pengujian Aktivitas Antibakteri

Lampiran 16 CV Penulis



TIARA DWI ADISTY

☎ 087826466447

✉ dwiadistytiara@gmail.com

📍 Bandung, Jawa Barat, Indonesia

Summary

Pharmacy graduate with a comprehensive background in participating in the entire recruitment, learning & development process. With good communication skills and a passion for learning, I am committed to developing in the professional world. Despite having no formal experience, I bring passion, willpower, and creativity to the table. I am looking for opportunities to learn, contribute and grow in a dynamic and innovative company.

Education

Bachelor of Pharmacy 3,71/4.00

Bhakti Kencana University

Sept 2020 – Oct 2024

- Major in pharmaceutical technology
- Thesis on " FORMULATION AND EVALUATION OF ESSENCE SHEET MASK FROM ROSEMARY OIL (Rosmarinus officinalis) AND ITS ACTIVITY TEST AS ANTIBACTERIAL ON Propionibacterium acnes"

SoftSkills

- **Effective Communication** : Able to communicate clearly and effectively, both orally and in writing. Collaborate with other team members to ensure the event runs smoothly and according to plan.
- **Teamwork** : Collaborative in working with various teams, able to build positive and productive relationships.
- **Problem Solving** : Think critically and creatively in overcoming challenges and solving problems with innovative solutions.
- **Time Management** : Organized and able to manage time well to complete tasks on time

Additional Information

- **Skills** : Microsoft Office, Creativity, Leadership, Teamwork, Communication, Good Laboratory practice
- **Languages** : English (medium) and Indonesian
- **Training** : Softskills Development Program and Carier Development Training