

Test of Homogeneity of Variances

Diameter

Levene Statistic	df1	df2	Sig.
1.431	5	12	.282

ANOVA

Diameter

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	218.463	5	43.693	7.645	.002
Within Groups	68.580	12	5.715		
Total	287.043	17			

Lampiran 2. Data pH sari buah nanas

Nanas	pH			
	1	2	3	Rata-rata
<i>Cayenne</i>	3,59	3,66	3,62	3,623±0,035
Queen	3,62	3,61	3,82	3,683±0,118
Honi	3,48	3,54	3,46	3,493±0,041

Descriptives

pH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Cayenne	3	3.6233	.03512	.02028	3.5361	3.7106	3.59	3.66
Queen	3	3.6833	.11846	.06839	3.3891	3.9776	3.61	3.82
Honi	3	3.4933	.04163	.02404	3.3899	3.5968	3.46	3.54
Total	9	3.6000	.10642	.03547	3.5182	3.6818	3.46	3.82

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	Cayenne	.204	3	.	.993	3	.843
	Queen	.370	3	.	.786	3	.081
	Honi	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

pH

Levene Statistic	df1	df2	Sig.
5.515	2	6	.044

Test Statistics^{a,b}

	pH
Chi-Square	5.535
df	2
Asymp. Sig.	.063

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Lampiran 3. Data uji aktivitas antibakteri sari buah nanas

Nanas	Konsentrasi (%)	Zona Hambat (mm)				Kategori
		1	2	3	Rata-rata	
Cayenne	50	5,2	5,4	5,6	5,4±0,2	Sedang
	70	6,1	6,1	7,1	6,433±0,577	Sedang
	75	6,7	7	7,8	7,166±0,568	Sedang
	100	11,6	9,5	10,3	10,466±1,059	Kuat
Queen	50	3	2,3	2,6	2,633±0,351	Lemah
	70	4,9	4,3	2,8	4±1,081	Lemah
	75	5,8	6,2	3,2	5,066±1,628	Sedang
	100	9,6	10,3	8,2	9,366±1,069	Sedang
Honi	50	5,4	1,7	5,8	4,3±2,260	Lemah
	70	6,7	3,8	6,1	5,533±1,530	Sedang
	75	7,7	6,4	6,8	6,966±0,665	Sedang
	100	11,1	10,1	11,8	11±0,854	Kuat

Descriptives

Diameter

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
C50	3	5.400	.2000	.1155	4.903	5.897	5.2	5.6
C70	3	6.433	.5774	.3333	4.999	7.868	6.1	7.1
C75	3	7.167	.5686	.3283	5.754	8.579	6.7	7.8
C100	3	10.467	1.0599	.6119	7.834	13.100	9.5	11.6
Q50	3	2.633	.3512	.2028	1.761	3.506	2.3	3.0
Q70	3	4.000	1.0817	.6245	1.313	6.687	2.8	4.9
Q75	3	5.067	1.6289	.9404	1.020	9.113	3.2	6.2
Q100	3	9.367	1.0693	.6173	6.710	12.023	8.2	10.3
H50	3	4.300	2.2605	1.3051	-1.315	9.915	1.7	5.8
H70	3	5.533	1.5308	.8838	1.731	9.336	3.8	6.7
H75	3	6.967	.6658	.3844	5.313	8.621	6.4	7.7
H100	3	11.000	.8544	.4933	8.878	13.122	10.1	11.8
Total	36	6.528	2.7065	.4511	5.612	7.444	1.7	11.8

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Diameter	C50	.175	3	.	1.000	3	1.000
	C70	.385	3	.	.750	3	.000
	C75	.282	3	.	.936	3	.510
	C100	.229	3	.	.981	3	.739
	Q50	.204	3	.	.993	3	.843
	Q70	.276	3	.	.942	3	.537
	Q75	.340	3	.	.848	3	.235
	Q100	.253	3	.	.964	3	.637
	H50	.353	3	.	.822	3	.169
	H70	.311	3	.	.897	3	.377
	H75	.265	3	.	.953	3	.583
	H100	.213	3	.	.990	3	.806

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Diameter

Levene Statistic	df1	df2	Sig.
3.138	11	24	.009

Test Statistics^{a,b}

	Diameter
Chi-Square	31.051
df	11
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Lampiran 4. Data pH kombucha sari buah nanas

Nanas	Formula	Konsentrasi (%)	pH			
			1	2	3	Rata-rata
Cayenne	Formula A	15 + 50	2,87	2,57	2,66	2,7±0,153
		15 + 75	2,73	2,49	2,57	2,596±0,122
	Formula B	20 + 50	2,85	2,48	2,59	2,64±0,19
		20 + 70	2,84	2,5	2,61	2,65±0,173
Queen	Formula C	15 + 50	3,1	3,13	3,05	3,093±0,040
		15 + 75	2,89	3,13	2,91	2,976±0,133
	Formula D	20 + 50	3,16	3,16	3,06	3,126±0,57
		20 + 70	3,17	3,17	2,84	3,06±0,190
Honi	Formula E	15 + 50	2,81	2,67	2,71	2,73±0,072
		15 + 75	2,66	2,56	2,58	2,6±0,052
	Formula F	20 + 50	2,75	2,56	2,62	2,643±0,097
		20 + 70	2,85	2,59	2,73	2,723±0,130

Descriptives

pH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
					Bound	Bound		
A1	3	2.7000	.15395	.08888	2.3176	3.0824	2.57	2.87
A2	3	2.5967	.12220	.07055	2.2931	2.9002	2.49	2.73
B1	3	2.6400	.19000	.10970	2.1680	3.1120	2.48	2.85
B2	3	2.6500	.17349	.10017	2.2190	3.0810	2.50	2.84
C1	3	3.0933	.04041	.02333	2.9929	3.1937	3.05	3.13
C2	3	2.9767	.13317	.07688	2.6459	3.3075	2.89	3.13
D1	3	3.1267	.05774	.03333	2.9832	3.2701	3.06	3.16
D2	3	3.0600	.19053	.11000	2.5867	3.5333	2.84	3.17
E1	3	2.7300	.07211	.04163	2.5509	2.9091	2.67	2.81
E2	3	2.6000	.05292	.03055	2.4686	2.7314	2.56	2.66
F1	3	2.6433	.09713	.05608	2.4021	2.8846	2.56	2.75
F2	3	2.7233	.13013	.07513	2.4001	3.0466	2.59	2.85
Total	36	2.7950	.22643	.03774	2.7184	2.8716	2.48	3.17

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	A1	.269	3	.	.949	3	.567
	A2	.253	3	.	.964	3	.637
	B1	.270	3	.	.948	3	.561
	B2	.258	3	.	.960	3	.616
	C1	.232	3	.	.980	3	.726
	C2	.358	3	.	.812	3	.144
	D1	.385	3	.	.750	3	.000
	D2	.385	3	.	.750	3	.000
	E1	.276	3	.	.942	3	.537
	E2	.314	3	.	.893	3	.363
	F1	.262	3	.	.957	3	.600
	F2	.187	3	.	.998	3	.915

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

pH

Levene Statistic	df1	df2	Sig.
1.634	11	24	.152

Test Statistics^{a,b}

	pH
Chi-Square	24.550
df	11
Asymp. Sig.	.011

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Lampiran 5. Data uji aktivitas antibakteri kombucha sari buah nanas

Nanas	Formula	Konsentrasi (%)	Zona Hambat (mm)				Kategori
			1	2	3	Rata-rata	
Cayenne	Formula A	15 + 50	2,9	4,3	5,4	4,2±1,252	Lemah
		15 + 75	6,8	8,2	3,9	6,3±2,193	Sedang
	Formula B	20 + 50	8,3	7,6	9,8	8,566±1,123	Sedang
		20 + 70	13	10,7	10,6	11,433±1,357	Kuat
Queen	Formula C	15 + 50	2,3	6,9	4,4	4,533±2,302	Lemah
		15 + 75	3,3	6,1	7,1	5,5±1,969	Sedang
	Formula D	20 + 50	5,4	4,9	4,8	5,033±0,,321	Sedang
		20 + 70	7,5	8	8	7,833±0,288	Sedang
Honi	Formula E	15 + 50	5,3	7,2	5,7	6,066±1,001	Sedang
		15 + 75	10,1	10	8,2	9,433±1,069	Sedang
	Formula F	20 + 50	9,8	9,7	10	9,833±0,152	Sedang
		20 + 70	12,1	12,8	13,7	12,866±0,802	Kuat

Descriptives

Diameter

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
A1	3	4.200	1.2530	.7234	1.087	7.313	2.9	5.4
A2	3	6.300	2.1932	1.2662	.852	11.748	3.9	8.2
B1	3	8.567	1.1240	.6489	5.775	11.359	7.6	9.8
B2	3	11.433	1.3577	.7839	8.061	14.806	10.6	13.0
C1	3	4.533	2.3029	1.3296	-1.187	10.254	2.3	6.9
C2	3	5.500	1.9698	1.1372	.607	10.393	3.3	7.1
D1	3	5.033	.3215	.1856	4.235	5.832	4.8	5.4
D2	3	7.833	.2887	.1667	7.116	8.550	7.5	8.0
E1	3	6.067	1.0017	.5783	3.578	8.555	5.3	7.2
E2	3	9.433	1.0693	.6173	6.777	12.090	8.2	10.1
F1	3	9.833	.1528	.0882	9.454	10.213	9.7	10.0
F2	3	12.867	.8021	.4631	10.874	14.859	12.1	13.7
Total	36	7.633	2.9598	.4933	6.632	8.635	2.3	13.7

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Diameter	A1	.198	3	.	.995	3	.868
	A2	.257	3	.	.961	3	.620
	B1	.260	3	.	.958	3	.605
	B2	.372	3	.	.781	3	.070
	C1	.190	3	.	.997	3	.904
	C2	.286	3	.	.930	3	.490
	D1	.328	3	.	.871	3	.298
	D2	.385	3	.	.750	3	.000
	E1	.310	3	.	.900	3	.384
	E2	.369	3	.	.789	3	.089
	F1	.253	3	.	.964	3	.637
	F2	.200	3	.	.995	3	.862

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Diameter

Levene Statistic	df1	df2	Sig.
2.083	11	24	.064

Test Statistics^{a,b}

	Diameter
Chi-Square	30.263
df	11
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Lampiran 6. Data uji pH sediaan deodoran *roll on*

Formula	Hasil Uji Sediaan				Literature
	1	2	3	Rata-rata	
F I	3,44	3,44	3,39	3,423±0,028	4,0 – 6,9 (pH ketiak) (Farhamzah & Khofifah, 2023)
F II	5,63	6,13	6,06	5,94±0,270	
F III	5,16	5,6	4,73	5,163±0,435	
F IV	4,61	5,08	4,95	4,88±0,242	
F V	4,62	5,12	5,03	4,923±0,266	

Descriptives

pH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.4233	.02887	.01667	3.3516	3.4950	3.39	3.44
2	3	5.9400	.27074	.15631	5.2674	6.6126	5.63	6.13
3	3	5.1633	.43501	.25115	4.0827	6.2440	4.73	5.60
4	3	4.8800	.24269	.14012	4.2771	5.4829	4.61	5.08
5	3	4.9233	.26652	.15388	4.2613	5.5854	4.62	5.12
Total	15	4.8660	.87695	.22643	4.3804	5.3516	3.39	6.13

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	1	.385	3	.	.750	3	.000
	2	.338	3	.	.853	3	.248
	3	.176	3	.	1.000	3	.987
	4	.280	3	.	.938	3	.518
	5	.322	3	.	.880	3	.324

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

pH

Levene Statistic	df1	df2	Sig.
1.577	4	10	.254

Test Statistics^{a,b}

	pH
Chi-Square	11.521
df	4
Asymp. Sig.	.021

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Multiple Comparisons

Dependent Variable: pH

Games-Howell

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-2.51667*	.15720	.011	-3.6957	-1.3376
	3	-1.74000	.25171	.060	-3.6573	.1773
	4	-1.45667*	.14111	.026	-2.5086	-.4047
	5	-1.50000*	.15478	.030	-2.6599	-.3401
2	1	2.51667*	.15720	.011	1.3376	3.6957
	3	.77667	.29582	.250	-.6804	2.2338
	4	1.06000*	.20992	.033	.1210	1.9990
	5	1.01667*	.21934	.044	.0414	1.9919
3	1	1.74000	.25171	.060	-.1773	3.6573
	2	-.77667	.29582	.250	-2.2338	.6804
	4	.28333	.28760	.849	-1.1958	1.7625
	5	.24000	.29454	.912	-1.2195	1.6995
4	1	1.45667*	.14111	.026	.4047	2.5086
	2	-1.06000*	.20992	.033	-1.9990	-.1210
	3	-.28333	.28760	.849	-1.7625	1.1958
	5	-.04333	.20811	.999	-.9727	.8861
5	1	1.50000*	.15478	.030	.3401	2.6599
	2	-1.01667*	.21934	.044	-1.9919	-.0414
	3	-.24000	.29454	.912	-1.6995	1.2195
	4	.04333	.20811	.999	-.8861	.9727

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

Lampiran 7. Data uji viskositas sediaan deodoran *roll on*

Formula	Hasil Uji Sediaan (cps)				
	1	2	3	Rata-rata	Literature
F I	4650	4810	4600	4686,667±109,697	255,84 – 3194,52 (Farhamzah & Khofifah, 2023)
F II	4215	4765	4810	4596,667±331,297	
F III	4755	4865	3735	4451,667±623,083	
F IV	4985	4520	4135	4546,667±425,626	
F V	4610	3925	3755	4096,667±452,612	

Descriptives

Viskositas

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4686.67	109.697	63.333	4414.17	4959.17	4600	4810
2	3	4596.67	331.298	191.275	3773.68	5419.66	4215	4810
3	3	4451.67	623.084	359.738	2903.84	5999.49	3735	4865
4	3	4546.67	425.627	245.736	3489.35	5603.98	4135	4985
5	3	3763.33	157.665	91.028	3371.67	4155.00	3610	3925
Total	15	4409.00	469.195	121.146	4149.17	4668.83	3610	4985

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	1	.298	3	.	.916	3	.439
	2	.361	3	.	.806	3	.130
	3	.353	3	.	.822	3	.169
	4	.192	3	.	.997	3	.896
	5	.188	3	.	.998	3	.913

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Viskositas

Levene Statistic	df1	df2	Sig.
3.159	4	10	.064

ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1649926.667	4	412481.667	2.880	.080
Within Groups	1432083.333	10	143208.333		
Total	3082010.000	14			

Multiple Comparisons

Dependent Variable: Viskositas

Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	90.000	308.986	.998	-926.90	1106.90
	3	235.000	308.986	.936	-781.90	1251.90
	4	140.000	308.986	.990	-876.90	1156.90
	5	923.333	308.986	.080	-93.56	1940.23
2	1	-90.000	308.986	.998	-1106.90	926.90
	3	145.000	308.986	.989	-871.90	1161.90
	4	50.000	308.986	1.000	-966.90	1066.90
	5	833.333	308.986	.124	-183.56	1850.23
3	1	-235.000	308.986	.936	-1251.90	781.90
	2	-145.000	308.986	.989	-1161.90	871.90
	4	-95.000	308.986	.998	-1111.90	921.90
	5	688.333	308.986	.245	-328.56	1705.23
4	1	-140.000	308.986	.990	-1156.90	876.90
	2	-50.000	308.986	1.000	-1066.90	966.90
	3	95.000	308.986	.998	-921.90	1111.90
	5	783.333	308.986	.158	-233.56	1800.23
5	1	-923.333	308.986	.080	-1940.23	93.56
	2	-833.333	308.986	.124	-1850.23	183.56
	3	-688.333	308.986	.245	-1705.23	328.56
	4	-783.333	308.986	.158	-1800.23	233.56

Lampiran 8. Data uji daya sebar sediaan deodoran *roll on*

Formula	Hasil Uji Sediaan (cm)				Literature
	1	2	3	Rata-rata	
F I	4,8	5,1	4,2	4,7±0,458	5 – 8 (Hajrin et al., 2021)
F II	5,9	5,3	4,6	5,266±0,650	
F III	6,1	7,1	7,2	6,8±0,608	
F IV	5,9	5,6	7,8	6,433±1,193	
F V	7,1	7,5	7,5	7,366±0,230	

Descriptives

Sebar

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	4.700	.4583	.2646	3.562	5.838	4.2	5.1
2	3	5.267	.6506	.3756	3.650	6.883	4.6	5.9
3	3	6.800	.6083	.3512	5.289	8.311	6.1	7.2
4	3	6.433	1.1930	.6888	3.470	9.397	5.6	7.8
5	3	7.367	.2309	.1333	6.793	7.940	7.1	7.5
Total	15	6.113	1.1813	.3050	5.459	6.768	4.2	7.8

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sebar	1	.253	3	-	.964	3	.637
	2	.187	3	-	.998	3	.915
	3	.356	3	-	.818	3	.157
	4	.339	3	-	.850	3	.241
	5	.385	3	-	.750	3	.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Sebar

Levene Statistic	df1	df2	Sig.
2.821	4	10	.084

Test Statistics^{a,b}

	Sebar
Chi-Square	10.138
df	4
Asymp. Sig.	.038

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Multiple Comparisons

Dependent Variable: Sebar

Games-Howell

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-.5667	.4595	.740	-2.734	1.601
	3	-2.1000 [*]	.4397	.045	-4.134	-.066
	4	-1.7333	.7379	.349	-6.143	2.676
	5	-2.6667 [*]	.2963	.012	-4.256	-1.077
2	1	.5667	.4595	.740	-1.601	2.734
	3	-1.5333	.5142	.165	-3.825	.758
	4	-1.1667	.7846	.627	-5.240	2.906
	5	-2.1000	.3986	.071	-4.550	-.350
3	1	2.1000 [*]	.4397	.045	.066	4.134
	2	1.5333	.5142	.165	-.758	3.825
	4	.3667	.7732	.985	-3.760	4.494
	5	-.5667	.3756	.627	-2.821	1.688
4	1	1.7333	.7379	.349	-2.676	6.143
	2	1.1667	.7846	.627	-2.906	5.240
	3	-.3667	.7732	.985	-4.494	3.760
	5	-.9333	.7016	.707	-5.918	4.052
5	1	2.6667 [*]	.2963	.012	1.077	4.256
	2	2.1000	.3986	.071	-.350	4.550
	3	.5667	.3756	.627	-1.688	2.821
	4	.9333	.7016	.707	-4.052	5.918

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

Lampiran 9. Data uji daya lekat sediaan deodoran *roll on*

Formula	Hasil Uji Sediaan (detik)				Literature
	1	2	3	Rata-rata	
F I	5	5	5	5±0	4 – 7 (Hajrin et al., 2021)
F II	6	7	6	6,333±0,577	
F III	6	6	6	6±0	
F IV	3	4	4	3,666±0,577	
F V	3	5	5	4,333±1,154	

Descriptives

Lekat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	5.00	.000	.000	5.00	5.00	5	5
2	3	6.33	.577	.333	4.90	7.77	6	7
3	3	6.00	.000	.000	6.00	6.00	6	6
4	3	3.67	.577	.333	2.23	5.10	3	4
5	3	4.33	1.155	.667	1.46	7.20	3	5
Total	15	5.07	1.163	.300	4.42	5.71	3	7

Tests of Normality^{a,c}

	Formula	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Lekat	2	.385	3	.	.750	3	.000
	4	.385	3	.	.750	3	.000
	5	.385	3	.	.750	3	.000

a. Lekat is constant when Formula = 1. It has been omitted.

b. Lilliefors Significance Correction

c. Lekat is constant when Formula = 3. It has been omitted.

Test of Homogeneity of Variances

Lekat

Levene Statistic	df1	df2	Sig.
9.333	4	10	.002

Test Statistics^{a,b}

	Lekat
Chi-Square	12.441
df	4
Asymp. Sig.	.014

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Multiple Comparisons

Dependent Variable: Lekat

Games-Howell

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-1.333	.333	.167	-3.90	1.23
	3	-1.000	.000	.	-1.00	-1.00
	4	1.333	.333	.167	-1.23	3.90
	5	.667	.667	.841	-4.46	5.80
2	1	1.333	.333	.167	-1.23	3.90
	3	.333	.333	.841	-2.23	2.90
	4	2.667*	.471	.022	.57	4.76
	5	2.000	.745	.258	-2.01	6.01
3	1	1.000	.000	.	1.00	1.00
	2	-.333	.333	.841	-2.90	2.23
	4	2.333	.333	.060	-.23	4.90
	5	1.667	.667	.355	-3.46	6.80
4	1	-1.333	.333	.167	-3.90	1.23
	2	-2.667*	.471	.022	-4.76	-.57
	3	-2.333	.333	.060	-4.90	.23
	5	-.667	.745	.883	-4.68	3.34
5	1	-.667	.667	.841	-5.80	4.46
	2	-2.000	.745	.258	-6.01	2.01
	3	-1.667	.667	.355	-6.80	3.46
	4	.667	.745	.883	-3.34	4.68

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

Lampiran 10. Data uji waktu kering sediaan deodoran *roll on*

Formula	Hasil Uji Sediaan (menit)				Literature
	1	2	3	Rata-rata	
F I	3	3	3	3±0	15 – 30 (gel) (Aditama et al., 2024)
F II	10	10	11	10,333±0,577	
F III	8	8	8	8±0	
F IV	5	5	5	5±0	
F V	8	8	7	7,666±0,577	

Descriptives

Kering

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	3	3.00	.000	.000	3.00	3.00	3	3
2	3	10.33	.577	.333	8.90	11.77	10	11
3	3	8.00	.000	.000	8.00	8.00	8	8
4	3	5.00	.000	.000	5.00	5.00	5	5
5	3	7.67	.577	.333	6.23	9.10	7	8
Total	15	6.80	2.651	.685	5.33	8.27	3	11

Tests of Normality^{a,c,d}

	Formula	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Kering	2	.385	3	.	.750	3	.000
	5	.385	3	.	.750	3	.000

a. Kering is constant when Formula = 1. It has been omitted.

b. Lilliefors Significance Correction

c. Kering is constant when Formula = 3. It has been omitted.

d. Kering is constant when Formula = 4. It has been omitted.

Test of Homogeneity of Variances

Kering

Levene Statistic	df1	df2	Sig.
12.000	4	10	.001

Test Statistics^{a,b}

	Kering
Chi-Square	13.605
df	4
Asymp. Sig.	.009

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Multiple Comparisons

Dependent Variable: Kering

Games-Howell

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-7.333 [*]	.333	.006	-9.90	-4.77
	3	-5.000	.000	.	-5.00	-5.00
	4	-2.000	.000	.	-2.00	-2.00
	5	-4.667 [*]	.333	.016	-7.23	-2.10
2	1	7.333 [*]	.333	.006	4.77	9.90
	3	2.333	.333	.060	-.23	4.90
	4	5.333 [*]	.333	.012	2.77	7.90
	5	2.667 [*]	.471	.022	.57	4.76
3	1	5.000	.000	.	5.00	5.00
	2	-2.333	.333	.060	-4.90	.23
	4	3.000	.000	.	3.00	3.00
	5	.333	.333	.841	-2.23	2.90
4	1	2.000	.000	.	2.00	2.00
	2	-5.333 [*]	.333	.012	-7.90	-2.77
	3	-3.000	.000	.	-3.00	-3.00
	5	-2.667 [*]	.333	.046	-5.23	-.10
5	1	4.667 [*]	.333	.016	2.10	7.23
	2	-2.667 [*]	.471	.022	-4.76	-.57
	3	-.333	.333	.841	-2.90	2.23
	4	2.667 [*]	.333	.046	.10	5.23

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

Lampiran 11. Data uji *cycling test* sediaan deodoran *roll on*

Formula	Siklus	Evaluasi Sediaan	Hasil Uji Stabilitas			
			1	2	3	Rata-rata
F II	Organoleptis		Tidak terjadi perubahan secara organoleptis (warna, aroma, bentuk)			
	1	pH	4,92	4,70	5,05	4,89±0,176
		Viskositas (cps)	4775	4875	4295	4648,333±310,053
	2	pH	4,84	4,81	4,82	4,823±0,015
		Viskositas (cps)	4065	3735	4190	3996,667±235,070
	3	pH	4,66	4,64	4,68	4,66±0,02
		Viskositas (cps)	4260	4025	3835	4040±212,896
F III	Organoleptis		Tidak terjadi perubahan secara organoleptis (warna, aroma, bentuk)			
	1	pH	4,65	4,59	4,26	4,5±0,21
		Viskositas (cps)	4580	4985	3985	4516,667±502,999
	2	pH	4,41	4,32	4,10	4,276±0,159
		Viskositas (cps)	4525	4585	4265	4458,333±170,098
	3	pH	4,42	4,32	4,04	4,26±0,196
		Viskositas (cps)	4700	4910	4565	4725±173,853
F IV	Organoleptis		Tidak terjadi perubahan secara organoleptis (warna, aroma, bentuk)			
	1	pH	4,18	4,58	4,35	4,37±0,200
		Viskositas (cps)	4590	4600	4850	4680±147,309
	2	pH	3,86	4,35	4,19	4,133±0,249
		Viskositas (cps)	4975	4655	4445	4691,667±266,895
	3	pH	4,84	4,29	4,15	4,426±0,364
		Viskositas (cps)	4535	4080	4685	4433,333±315,052
F V	Organoleptis		Tidak terjadi perubahan secara organoleptis (warna, aroma, bentuk)			
	1	pH	4,68	4,67	4,47	4,606±0,118
		Viskositas (cps)	4700	3965	3995	4220±415,962
	2	pH	4,44	4,39	4,27	4,366±0,087
		Viskositas (cps)	3910	4470	4630	4336,667±378,065
	3	pH	4,28	4,29	4,19	4,253±0,055
		Viskositas (cps)	3730	4245	4120	4031,667±268,623

Lampiran 12. Data uji pH cycling test sediaan deodoran roll on

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
F2	1	3	4.8900	.17692	.10214	4.4505	5.3295	4.70	5.05
	2	3	4.8233	.01528	.00882	4.7854	4.8613	4.81	4.84
	3	3	4.6600	.02000	.01155	4.6103	4.7097	4.64	4.68
	Total	9	4.7911	.13596	.04532	4.6866	4.8956	4.64	5.05
F3	1	3	4.5000	.21000	.12124	3.9783	5.0217	4.26	4.65
	2	3	4.2767	.15948	.09207	3.8805	4.6728	4.10	4.41
	3	3	4.2600	.19698	.11372	3.7707	4.7493	4.04	4.42
	Total	9	4.3456	.20138	.06713	4.1908	4.5003	4.04	4.65
F4	1	3	4.3700	.20075	.11590	3.8713	4.8687	4.18	4.58
	2	3	4.1333	.24987	.14426	3.5126	4.7540	3.86	4.35
	3	3	4.4267	.36474	.21058	3.5206	5.3327	4.15	4.84
	Total	9	4.3100	.27767	.09256	4.0966	4.5234	3.86	4.84
F5	1	3	4.6067	.11846	.06839	4.3124	4.9009	4.47	4.68
	2	3	4.3667	.08737	.05044	4.1496	4.5837	4.27	4.44
	3	3	4.2533	.05508	.03180	4.1165	4.3901	4.19	4.29
	Total	9	4.4089	.17489	.05830	4.2745	4.5433	4.19	4.68

Tests of Normality

	Siklus	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
F2	1	.234	3	.	.978	3	.719
	2	.253	3	.	.964	3	.637
	3	.175	3	.	1.000	3	1.000
F3	1	.333	3	.	.862	3	.274
	2	.274	3	.	.945	3	.546
	3	.286	3	.	.930	3	.490
F4	1	.206	3	.	.993	3	.835
	2	.256	3	.	.961	3	.622

	3	.313	3	.	.895	3	.369
F5	1	.370	3	.	.786	3	.081
	2	.272	3	.	.947	3	.554
	3	.353	3	.	.824	3	.174

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
F2	5.301	2	6	.047
F3	.249	2	6	.787
F4	1.015	2	6	.417
F5	1.612	2	6	.275

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
F3	Between Groups	.108	2	.054	1.492	.298
	Within Groups	.217	6	.036		
	Total	.324	8			
F4	Between Groups	.145	2	.073	.924	.447
	Within Groups	.472	6	.079		
	Total	.617	8			
F5	Between Groups	.195	2	.098	11.860	.008
	Within Groups	.049	6	.008		
	Total	.245	8			

Test Statistics^{a,b}

	F2
Chi-Square	5.600
df	2
Asymp. Sig.	.061

a. Kruskal Wallis Test

b. Grouping Variable:

Siklus

Lampiran 13. Data uji viskositas *cycling test* sediaan deodoran roll on

Descriptives

					95% Confidence Interval for Mean			
					Lower Bound	Upper Bound		
	N	Mean	Std. Deviation	Std. Error			Minimum	Maximum
F2 1	3	4648.33	310.054	179.010	3878.12	5418.55	4295	4875
2	3	3996.67	235.071	135.718	3412.72	4580.62	3735	4190
3	3	4040.00	212.897	122.916	3511.14	4568.86	3835	4260
Total	9	4228.33	385.689	128.563	3931.87	4524.80	3735	4875
F3 1	3	4516.67	502.999	290.407	3267.15	5766.19	3985	4985
2	3	4458.33	170.098	98.206	4035.79	4880.88	4265	4585
3	3	4725.00	173.853	100.374	4293.12	5156.88	4565	4910
Total	9	4566.67	304.600	101.533	4332.53	4800.80	3985	4985
F4 1	3	4680.00	147.309	85.049	4314.06	5045.94	4590	4850
2	3	4691.67	266.896	154.092	4028.66	5354.67	4445	4975
3	3	4433.33	315.053	181.896	3650.70	5215.97	4080	4685
Total	9	4601.67	253.007	84.336	4407.19	4796.14	4080	4975
F5 1	3	4220.00	415.963	240.156	3186.69	5253.31	3965	4700
2	3	4336.67	378.065	218.276	3397.50	5275.83	3910	4630
3	3	4031.67	268.623	155.090	3364.37	4698.96	3730	4245
Total	9	4196.11	338.810	112.937	3935.68	4456.54	3730	4700

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
F2 1	1	.325	3	.	.875	3	.309
2	2	.281	3	.	.937	3	.514
3	3	.195	3	.	.996	3	.883
F3 1	1	.217	3	.	.988	3	.791
2	2	.319	3	.	.885	3	.339
3	3	.224	3	.	.984	3	.762
F4 1	1	.373	3	.	.779	3	.065

	2	.221	3	.	.986	3	.772
	3	.293	3	.	.922	3	.459
F5	1	.372	3	.	.781	3	.069
	2	.304	3	.	.907	3	.407
	3	.296	3	.	.919	3	.448

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
F2	.523	2	6	.617
F3	2.059	2	6	.208
F4	.946	2	6	.439
F5	.639	2	6	.561

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
F2	Between Groups	79616.667	2	39808.333	6.074	.036
	Within Groups	393433.333	6	65572.222		
	Total	1190050.000	8			
F3	Between Groups	117916.667	2	58958.333	.567	.595
	Within Groups	624333.333	6	104055.556		
	Total	742250.000	8			
F4	Between Groups	127716.667	2	63858.333	.997	.423
	Within Groups	384383.333	6	64063.889		
	Total	512100.000	8			
F5	Between Groups	142105.556	2	71052.778	.549	.604
	Within Groups	776233.333	6	129372.222		
	Total	918338.889	8			

Lampiran 14. Data uji aktivitas antibakteri sediaan deodoran *roll on* kombucha sari buah nanas

Descriptives

					95% Confidence Interval for Mean			
					Lower Bound	Upper Bound		
	N	Mean	Std. Deviation	Std. Error			Minimum	Maximum
Sebelum F3	3	4.533	2.2121	1.2771	-.962	10.028	2.2	6.6
F4	3	6.533	1.9348	1.1170	1.727	11.340	4.3	7.7
F5	3	7.867	2.3798	1.3740	1.955	13.778	5.3	10.0
Total	9	6.311	2.3846	.7949	4.478	8.144	2.2	10.0
Sesudah F3	3	4.333	1.9399	1.1200	-.486	9.152	2.1	5.6
F4	3	5.433	2.8537	1.6476	-1.656	12.522	2.2	7.6
F5	3	6.533	1.6862	.9735	2.345	10.722	4.6	7.7
Total	9	5.433	2.1436	.7145	3.786	7.081	2.1	7.7

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sebelum F3		.215	3	.	.989	3	.800
F4		.376	3	.	.772	3	.049
F5		.239	3	.	.975	3	.698
Sesudah F3		.358	3	.	.814	3	.148
F4		.312	3	.	.895	3	.370
F5		.342	3	.	.845	3	.227

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Sebelum	.040	2	6	.961
Sesudah	.944	2	6	.440

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Sebelum	Between Groups	16.889	2	8.444	1.772	.249
	Within Groups	28.600	6	4.767		
	Total	45.489	8			
Sesudah	Between Groups	7.260	2	3.630	.738	.517
	Within Groups	29.500	6	4.917		
	Total	36.760	8			

Ranks

		N	Mean Rank	Sum of Ranks
Sesudah - Sebelum	Negative Ranks	7 ^a	4.57	32.00
	Positive Ranks	1 ^b	4.00	4.00
	Ties	1 ^c		
	Total	9		

a. Sesudah < Sebelum

b. Sesudah > Sebelum

c. Sesudah = Sebelum

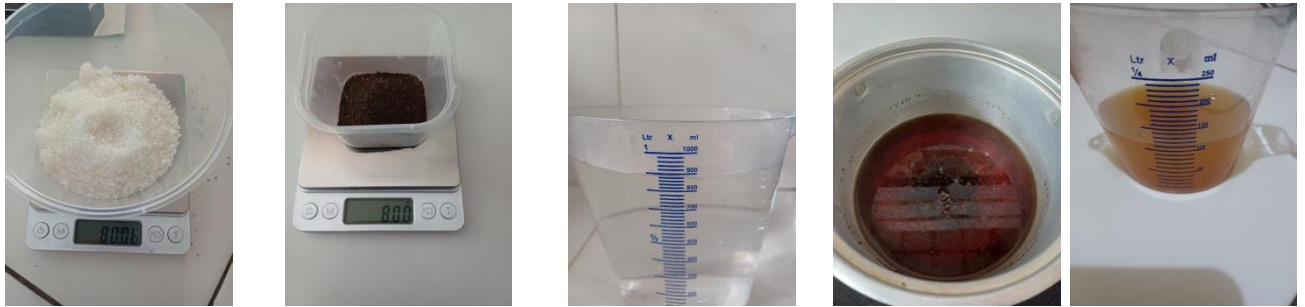
Test Statistics^a

	Sesudah - Sebelum
Z	-1.960 ^b
Asymp. Sig. (2-tailed)	.050

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

Lampiran 15. Dokumentasi fermentasi teh kombucha



Persiapan bahan-bahan yang akan digunakan untuk fermentasi teh kombucha



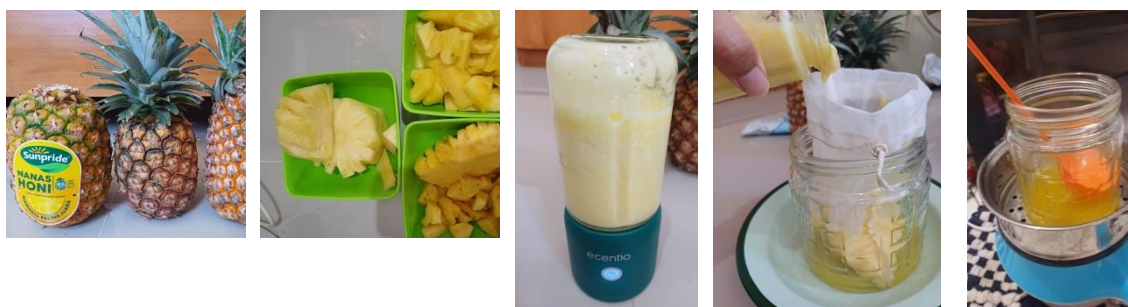
Hari ke-0

Hari ke-7

Hari ke-14

Penyaringan teh kombucha

Lampiran 16. Dokumentasi fermentasi kombucha sari buah nanas



Buah nanas

Buah nanas yang sudah dipotong dan dicuci bersih

Penghalusan buah nanas

Penyaringan sari buah nanas

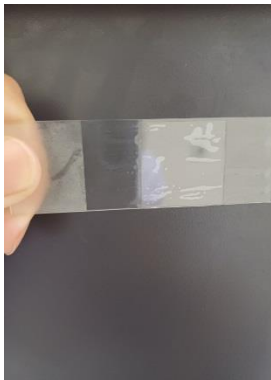
Pemanasan sari buah nanas



Fermentasi kombucha dengan sari buah nanas

Hasil fermentasi kombucha sari buah nanas

Lampiran 17. Dokumentasi evaluasi sediaan deodoran *roll on* kombucha sari buah nanas



Uji organoleptis dan waktu kering



Uji pH

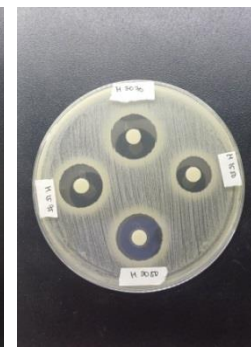
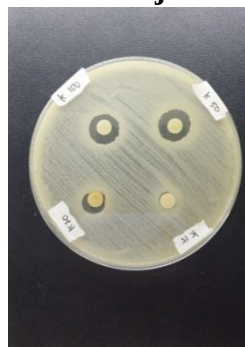


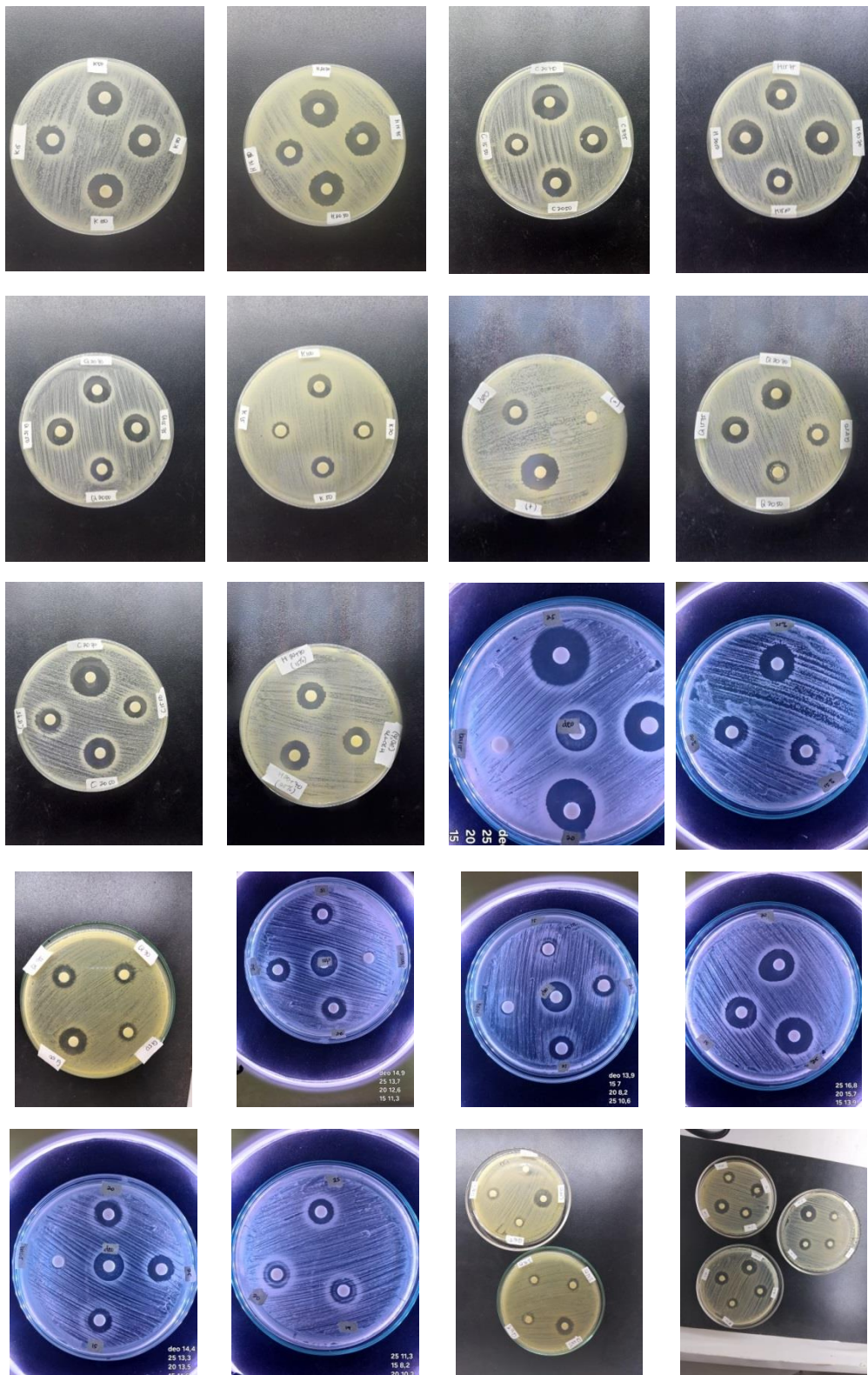
Uji viskositas



Uji daya sebar, daya lekat,

Lampiran 18. Dokumentasi uji aktivitas antibakteri





Lampiran 19. CoA bakteri *Staphylococcus epidermidis*

ThermoFisher Scientific
The world leader in serving science

ThermoFisher Scientific
120% Santa Fe Trail Drive
Lebanon, NJ 07036
800.551.7730
www.thermofisher.com

thermoSCIENTIFIC

Certificate of Analysis - Certified Reference Material

Thermo Scientific™ Trademark™
Product Number R4686500
Product Name *S. epidermidis* ATCC 12228 PN/5
Lot Number 10000000000000000000
Usage Decision Accepted (OK)
Expiration Date 2026-02-10

This product has been manufactured, processed and packaged in accordance with Quality Systems, Regulations, 21 CFR Part 320.
The product was received from the manufacturer and was obtained at the time of purchase.
Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char. Results

Property	Demarcates pure growth on applicable media
Purity	Recovered at acceptable level within test period
Viability	3 (Current preserved state)
Passage	

Microbiological testing

Test	Result	Specification
>85% Identification on Vitek 2C GP	100	85 - 100
>95% Identification on MicroSEQ	100	95 - 100
Microscopic Features	Pass	

These tests are performed in accordance with ISO 17025 guidelines.
Thermo Fisher Scientific has determined each lot of this reference material to be sufficiently homogeneous for its intended use.
Individual products are traceable to a recognized culture collection.
Although the Vitek (TM) panel uses many conventional tests, the unique environment of the cart, combined with the short incubation period, may produce results that differ from published results obtained by other methods.

Signed 

Dawn Baker
QA Manager

The identity, purity, and authenticity of the Licensed Products are exclusively the responsibility of Remel Inc. and not ATCC.
The ATCC Licensed Derivative Emblem, the ATCC Licensed Derivative Word mark, and the ATCC Catalog Marks are trademarks of ATCC.
Remel Inc. is licensed to use these trademarks and to sell products derived from ATCC's culture.

ATCC Licensed Derivative

ACCREDITED
CERT #6559-01
Thermo Fisher Scientific is accredited by A2LA as a registered reference material producer certificate number 6559-01 in accordance with ISO 17034:11

[[] ISO 17034 First Edition 2016-11-01 General requirements for the competence of reference material producers

Version 1.0

Printed on: 2024/10/11

Page 1 of 2

Lampiran 20. Plagiarisme

Ferda Amelia TA 2 rev Kolokium.docx

ORIGINALITY REPORT

3%

SIMILARITY INDEX

3%

INTERNET SOURCES

4%

PUBLICATIONS

2%

STUDENT PAPERS

PRIMARY SOURCES

1

etheses.uin-malang.ac.id

Internet Source

1%

2

ejurnal.universitas-bth.ac.id

Internet Source

1%

3

repository.umnaw.ac.id

Internet Source

1%

4

repository.radenintan.ac.id

Internet Source

1%

Exclude quotes On

Exclude matches < 1%

Exclude bibliography On

Lampiran 21. Bimbingan tugas akhir

No	Tanggal	Pembimbing Proposal	Topik	Disetujui	Aksi
1	8 Oktober 2024	Soni Muhsinin, M.Si.	Bioteknologi dan Sediaan Farmasi	✓	
1	28 Oktober 2024	Dr. apt. Garnadi Jafar, M.Si	Tema penelitian	✓	
2	17 Oktober 2024	Soni Muhsinin, M.Si.	Menentukan tema (kombucha kulit nanas)	✓	
2	8 November 2024	Dr. apt. Garnadi Jafar, M.Si	Kemajuan 1	✓	
3	17 Desember 2024	Dr. apt. Garnadi Jafar, M.Si	BAB 1	✓	
3	22 Oktober 2024	Soni Muhsinin, M.Si.	Deodorant spray kombucha sari buah nanas	✓	
4	20 Desember 2024	Dr. apt. Garnadi Jafar, M.Si	Kemajuan 2	✓	
4	31 Oktober 2024	Soni Muhsinin, M.Si.	Latar belakang kombinasi kombucha sari buah nanas dan sediaan deodorant roll on	✓	
5	6 November 2024	Soni Muhsinin, M.Si.	kemajuan 1	✓	
5	13 Januari 2025	Dr. apt. Garnadi Jafar, M.Si	BAB 2	✓	
6	14 Januari 2025	Dr. apt. Garnadi Jafar, M.Si	Bab 3	✓	
6	6 Desember 2024	Soni Muhsinin, M.Si.	Formulasi Kombucha sari buah nanas	✓	
7	20 Desember 2024	Soni Muhsinin, M.Si.	Kemajuan 2	✓	
7	16 Januari 2025	Dr. apt. Garnadi Jafar, M.Si	Draft proposal	✓	
8	17 Januari 2025	Dr. apt. Garnadi Jafar, M.Si	Acc Daftar Semprom	✓	
8	14 Januari 2025	Soni Muhsinin, M.Si.	Acc Daftar Semprom	✓	

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	24 April 2025	Soni Muhsinin, M.Si.	Perubahan basis sediaan deodoran roll on	✓	 
1	11 Maret 2025	Dr. apt. Garnadi Jafar, M.Si	Formulasi sediaan deodoran roll on	✓	 
2	25 April 2025	Soni Muhsinin, M.Si.	Optimasi basis sediaan deodoran roll on	✓	 
2	24 April 2025	Dr. apt. Garnadi Jafar, M.Si	Perubahan basis sediaan deodoran roll on	✓	 
3	5 Mei 2025	Soni Muhsinin, M.Si.	kemajuan 1 TA 2	✓	 
3	25 April 2025	Dr. apt. Garnadi Jafar, M.Si	Optimasi basis sediaan deodoran roll on	✓	 
4	5 Mei 2025	Dr. apt. Garnadi Jafar, M.Si	kemajuan 1 TA 2		 
4	10 Juni 2025	Soni Muhsinin, M.Si.	data hasil penelitian	✓	 
5	10 Juni 2025	Dr. apt. Garnadi Jafar, M.Si	data hasil penelitian		 
5	10 Juni 2025	Soni Muhsinin, M.Si.	kemajuan 2	✓	 
6	10 Juni 2025	Dr. apt. Garnadi Jafar, M.Si	kemajuan 2		 
6	23 Juni 2025	Soni Muhsinin, M.Si.	olah data spss	✓	 
7	7 Juli 2025	Soni Muhsinin, M.Si.	pengajuan draft TA 2	✓	 
7	7 Juli 2025	Dr. apt. Garnadi Jafar, M.Si	pengajuan draft TA 2		 
8	9 Juli 2025	Soni Muhsinin, M.Si.	pengajuan draft TA 2 (perbaikan)	✓	 
8	9 Juli 2025	Dr. apt. Garnadi Jafar, M.Si	pengajuan draft TA 2 (perbaikan)		 
9	11 Juli 2025	Soni Muhsinin, M.Si.	Revisi draft TA 2	✓	 

Lampiran 22. Curriculum vitae**BIODATA**

Nama Lengkap	: Ferda Amelia
Nama Panggilan	: Ferda
Tempat/Tanggal Lahir	: Sulusuban, 14 Februari 2001
Jenis Kelamin	: Perempuan
Agama	: Islam
Alamat	: Desa Endang Rejo, RT/RW 023/004, Kecamatan Seputih Agung, Kabupaten Lampung Tengah, Lampung
Email	: ferdaamelia81@gmail.com
Nama Ayah	: Wagio
Nama Ibu	: Nufri Faria Sari