

LAMPIRAN

Lampiran 1. Certificate of Analysis (COA) minyak atsiri bunga kenanga (*Cananga odorata*) dari PT. Rumah Atsiri Indonesia.



Certificate of Analysis

Product Name : Cananga Oil
Botanical Name : *Cananga odorata*
Lot : 000325463


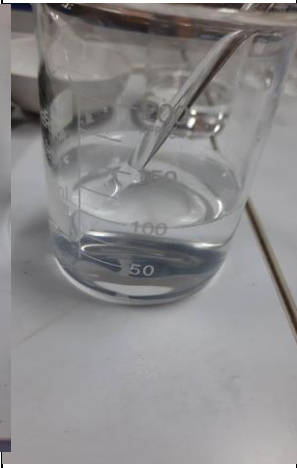


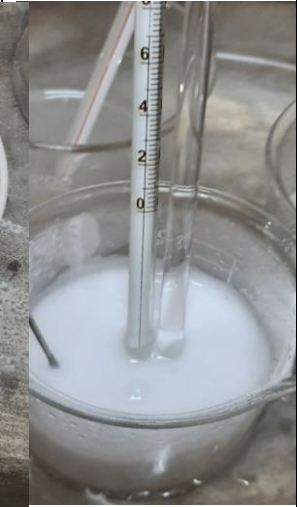
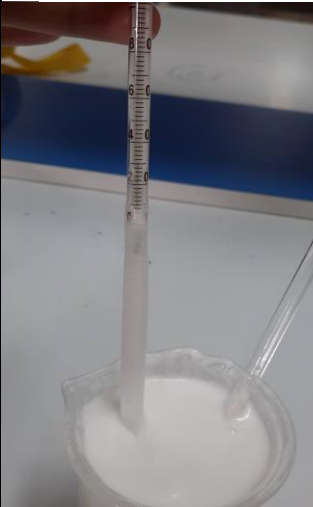
Parameter	Hasil
Color	Clear light yellow
Appearance	Liquid
Odour	Characteristic, reminiscent of the Cananga flower, sweet
Specific Gravity (25°C) (g/ml)	0.910
Optical Rotation (25°C)	-23
Refractive Index (20°C)	1.502

STORAGE

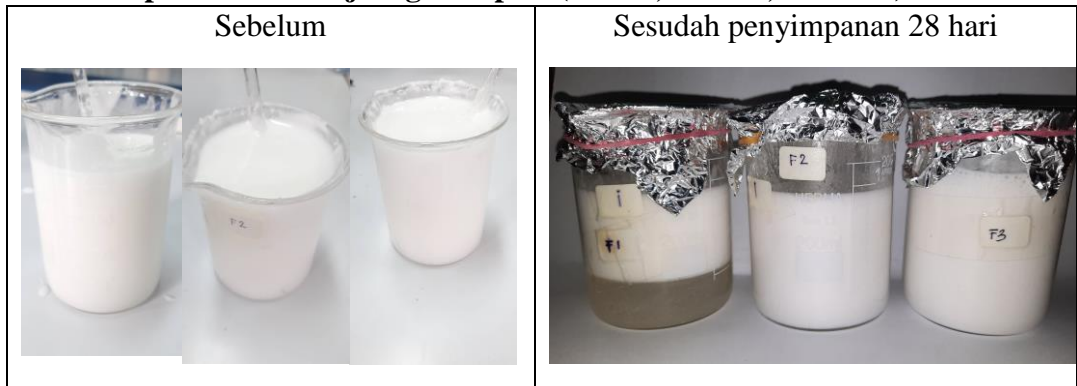
Store product in tightly closed containers in a cool dry place away from heat and direct sunlight.

**Salinan ini dibuat sebagaimana mestinya. Segala hal tentang penyalahgunaan data tersebut di atas bukan tanggung jawab kami PT Rumah Atsiri Indonesia.*

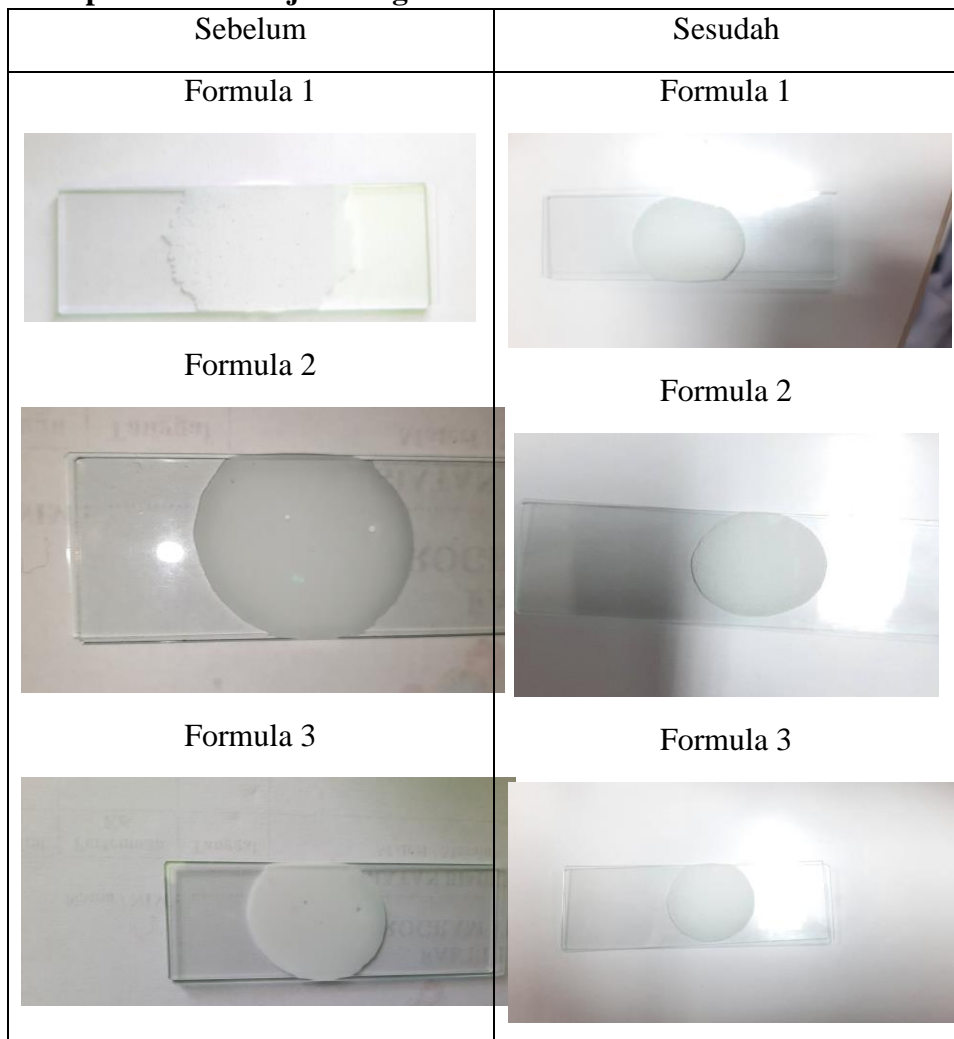
Lampiran 2. Foto pembuatan sabun cair

Penimbangan bahan	Pelarutan KOH	Minyak atsiri bunga kenanga
		
Peleburan asam stearat	Pembuatan sabun cair suhu 70°C	Penambahan air akhir suhu 30°C
		





Lampiran 3. Foto uji organoleptik (warna, bentuk, dan bau)



Lampiran 4. Foto uji homogenitas



Lampiran 5. Foto pengujian pH

Sebelum	Sesudah penyimpanan 28 hari
<p data-bbox="344 311 477 343">Formula 1</p> 	<p data-bbox="889 311 1022 343">Formula 1</p> 
<p data-bbox="344 813 477 846">Formula 2</p> 	<p data-bbox="889 813 1022 846">Formula 2</p> 
<p data-bbox="344 1373 477 1406">Formula 3</p>	<p data-bbox="889 1373 1022 1406">Formula 3</p>



Lampiran 6. Data uji pH

Sebelum			
Pengulangan	F1	F2	F3
1	8,84	7,77	7,05
2	8,90	7,78	7,11
3	8,94	7,79	7,19
\bar{x}	8,89	7,78	7,12
SD	0,050	0,010	0,070
Sesudah			
Pengulangan	F1	F2	F3
1	8,23	7,50	7,02
2	8,29	7,55	7,09
3	8,33	7,62	7,10
\bar{x}	8,28	7,56	7,07
SD	0,050	0,060	0,044

Lampiran 7. Analisis data statistik uji pH

Normalitas

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Uji pH sebelum	1	.219	3	.	.987	3	.780
	2	.175	3	.	1.000	3	1.000
	3	.204	3	.	.993	3	.843
Uji pH sesudah penyimpanan	1	.219	3	.	.987	3	.780
	2	.211	3	.	.991	3	.817
	3	.343	3	.	.842	3	.220

a. Lilliefors Significance Correction

Homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Uji pH sebelum	Based on Mean	2.077	2	6	.206
	Based on Median	1.383	2	6	.321
	Based on Median and with adjusted df	1.383	2	3.761	.355
	Based on trimmed mean	2.032	2	6	.212
Uji pH sesudah penyimpanan	Based on Mean	.105	2	6	.902
	Based on Median	.109	2	6	.898
	Based on Median and with adjusted df	.109	2	5.826	.898
	Based on trimmed mean	.106	2	6	.901

Anova one way

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Uji pH sebelum	Between Groups	4.836	2	2.418	958.692	.000
	Within Groups	.015	6	.003		
	Total	4.851	8			
Uji pH sesudah penyimpanan	Between Groups	2.237	2	1.119	415.983	.000
	Within Groups	.016	6	.003		
	Total	2.253	8			

Post Hoc Test**Multiple Comparisons**

Tukey HSD

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Uji pH sebelum	1	2	1.11333*	.04101	.000	.9875	1.2392
		3	1.77667*	.04101	.000	1.6508	1.9025
	2	1	-1.11333*	.04101	.000	-1.2392	-.9875
		3	.66333*	.04101	.000	.5375	.7892
	3	1	-1.77667*	.04101	.000	-1.9025	-1.6508
		2	-.66333*	.04101	.000	-.7892	-.5375
Uji pH sesudah penyimpanan	1	2	.72667*	.04234	.000	.5968	.8566
		3	1.21333*	.04234	.000	1.0834	1.3432
	2	1	-.72667*	.04234	.000	-.8566	-.5968
		3	-.48667*	.04234	.000	-.3568	-.6166
	3	1	-1.21333*	.04234	.000	-1.3432	-1.0834
		2	-.48667*	.04234	.000	-.6166	-.3568

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

Uji pH sebelumTukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
3	3	7.1167		
2	3		7.7800	
1	3			8.8933
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.


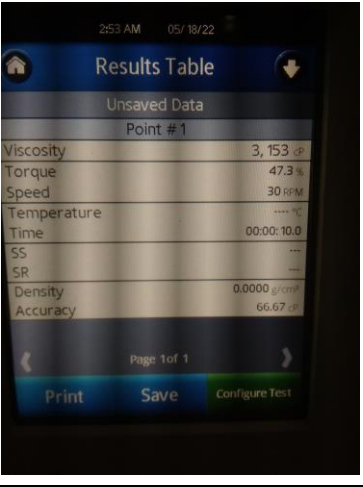
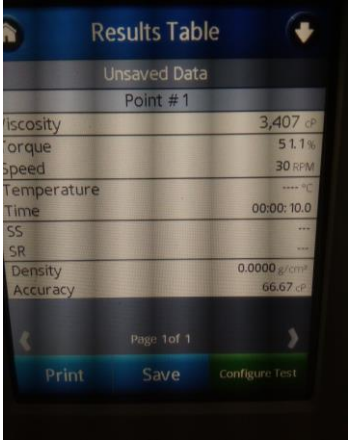



Uji pH sesudah penyimpananTukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
3	3	7.0700		
2	3		7.5567	
1	3			8.2833
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 8. Foto uji viskositas

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Lampiran 9. Data uji viskositas

Sebelum			
Pengulangan	F1	F2	F3
1	3,017	3,407	4,101
2	3,067	3,470	4,104
3	3,102	3,498	4,147
\bar{x}	3,062	3,458	4,117
SD	0,043	0,047	0,026
Sesudah			
Pengulangan	F1	F2	F3
1	3,037	3,820	5,307
2	3,153	3,870	5,380
3	3,198	3,978	5,421
\bar{x}	3,129	3,889	5,369
SD	0,083	0,081	0,058

Lampiran 10. Analisis data statistik uji viskositas

Normalitas

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Sebelum_penyimpanan	Formula 1	.213	3	.	.990	3	.806
	Formula 2	.265	3	.	.953	3	.583
	Formula 3	.364	3	.	.799	3	.111
Sesudah_penyimpanan	Formula 1	.279	3	.	.939	3	.524
	Formula 2	.261	3	.	.957	3	.601
	Formula 3	.240	3	.	.974	3	.693

a. Lilliefors Significance Correction

Homogen

		Test of Homogeneity of Variances			
		Levene Statistic	df1	df2	Sig.
Sebelum_penyimpanan	Based on Mean	.514	2	6	.622
	Based on Median	.268	2	6	.774
	Based on Median and with adjusted df	.268	2	5.662	.774
	Based on trimmed mean	.495	2	6	.633
Sesudah_penyimpanan	Based on Mean	.331	2	6	.731
	Based on Median	.090	2	6	.915

Based on Median and with adjusted df	.090	2	5.357	.915
Based on trimmed mean	.307	2	6	.747

Anova one way

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Sebelum_penyimpanan	Between Groups	1705089.556	2	852544.778	548.888	.000
	Within Groups	9319.333	6	1553.222		
	Total	1714408.889	8			
Sesudah_penyimpanan	Between Groups	7785600.000	2	3892800.000	696.968	.000
	Within Groups	33512.000	6	5585.333		
	Total	7819112.000	8			

Post Hoc Test

Multiple Comparisons

Tukey HSD

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Sebelum_penyimpanan	Formula 1	Formula 2	-396.33333*	32.17890	.000	-495.0670	-297.5996
		Formula 3	-1055.33333*	32.17890	.000	-1154.0670	-956.5996
	Formula 2	Formula 1	396.33333*	32.17890	.000	297.5996	495.0670
		Formula 3	-659.00000*	32.17890	.000	-757.7337	-560.2663
	Formula 3	Formula 1	1055.33333*	32.17890	.000	956.5996	1154.0670
		Formula 2	659.00000*	32.17890	.000	560.2663	757.7337
Sesudah_penyimpanan	Formula 1	Formula 2	-760.00000*	61.02094	.000	-947.2290	-572.7710
		Formula 3	-2240.00000*	61.02094	.000	-2427.2290	-2052.7710
	Formula 2	Formula 1	760.00000*	61.02094	.000	572.7710	947.2290
		Formula 3	-1480.00000*	61.02094	.000	-1667.2290	-1292.7710
	Formula 3	Formula 1	2240.00000*	61.02094	.000	2052.7710	2427.2290
		Formula 2	1480.00000*	61.02094	.000	1292.7710	1667.2290

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

Sebelum penyimpananTukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
Formula 1	3	3062.0000		
Formula 2	3		3458.3333	
Formula 3	3			4117.3333
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Sesudah penyimpananTukey HSD^a

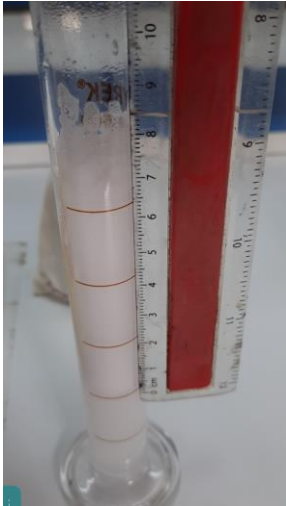





Formula	N	Subset for alpha = 0.05		
		1	2	3
Formula 1	3	3129.333 3		
Formula 2	3		3889.333 3	
Formula 3	3			5369.333 3
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 11. Foto uji tinggi dan stabilitas busa

a. Pengujian uji tinggi dan stabilitas busa

Formula 1	Formula 2	Formula 3
0 menit sebelum 28 hari 	0 menit sebelum 28 hari 	0 menit sebelum 28 hari 
5 menit sebelum 28 hari 	5 menit sebelum 28 hari 	5 menit sebelum 28 hari 
0 menit sesudah 28 hari	0 menit sesudah 28 hari	0 menit sesudah 28 hari



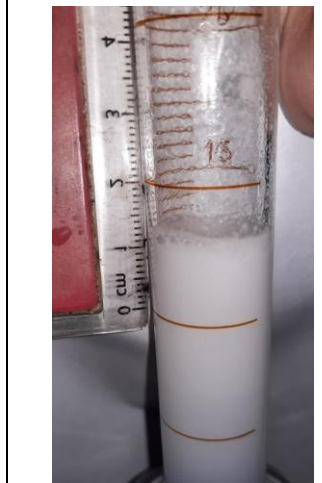
5 menit sesudah 28 hari



5 menit sesudah 28 hari



5 menit sesudah 28 hari



Lampiran 12. Data uji tinggi dan stabilitas busa

	Sebelum				Sesudah				
	0 meni t	5 meni t	% busa hilan g	% stabilit as busa	0 meni t	5 meni t	% busa hilan g	% stabilit as busa	
F1 Pengulang an 1	7,7	6	22,08	77,92	4,4	3,9	11,36	88,64	
	2	7,6	6,5	14,47	85,53	4,4	3,3	21,42	78,57
	3	7,5	6	20,00	80,00	4,1	3,2	21,95	78,05
	\bar{x}	7,6	6,2	18,90	81,15	4,2	3,5	18,25	81,75
	SD	0,10	0,28	3,930	3,930	0,15	0,37	5,968	5,968
F2 Pengulang an 1	5	4,6	8,00	92,00	2,4	1,9	20,83	79,17	
	2	5,1	4,3	15,69	84,31	2,2	1,8	18,18	81,82
	3	5,2	4,3	17,31	82,69	2,3	1,9	17,39	82,61
	\bar{x}	5,1	4,4	13,66	88,16	2,3	1,9	18,80	81,20
	SD	0,10	0,17	4,972	5,435	0,10	0,05	1,803	1,803
F3 Pengulang an 1	2,4	2,3	4,16	95,83	1,3	1,3	0,00	100,00	
	2	2,2	2,2	0,00	100,00	1,9	1,8	5,26	94,74
	3	2,1	2,1	0,00	100,00	1,4	1,3	7,14	92,86
	\bar{x}	2,2	2,2	1,39	98,61	1,5	1,5	4,14	95,86
	SD	0,15	0,10	2,406	2,406	0,32	0,28	3,703	3,70

Lampiran 13. Analisis data statistik uji tinggi dan stabilitas busa Normalitas

	Tests of Normality						
	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Tinggi_busa_sebelum	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.253	3	.	.964	3	.637
Tinggi_busa_sesudah	Formula 1	.253	3	.	.964	3	.637
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.328	3	.	.871	3	.298
Stabilitas_busa_sebelum	Formula 1	.282	3	.	.936	3	.511

	Formula 2	.325	3	.	.876	3	.312
	Formula 3	.372	3	.	.781	3	.070
Stabilitas_busa_sesudah	Formula 1	.370	3	.	.787	3	.083
	Formula 2	.301	3	.	.911	3	.422
	Formula 3	.286	3	.	.930	3	.490

a. Lilliefors Significance Correction

Homogen

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Tinggi_busa_sebelum	Based on Mean	.516	2	6	.621
	Based on Median	.200	2	6	.824
	Based on Median and with adjusted df	.200	2	4.545	.826
	Based on trimmed mean	.493	2	6	.634
Tinggi_busa_sesudah	Based on Mean	3.525	2	6	.097
	Based on Median	.520	2	6	.619
	Based on Median and with adjusted df	.520	2	2.772	.643
	Based on trimmed mean	3.128	2	6	.117
Stabilitas_busa_sebelum	Based on Mean	1.197	2	6	.365
	Based on Median	.213	2	6	.814
	Based on Median and with adjusted df	.213	2	4.906	.815
	Based on trimmed mean	1.058	2	6	.404
Stabilitas_busa_sesudah	Based on Mean	3.476	2	6	.099
	Based on Median	.311	2	6	.744
	Based on Median and with adjusted df	.311	2	3.107	.753
	Based on trimmed mean	2.912	2	6	.131

Anova one way

		ANOVA				
		Sum of Squares	df	Mean Square	F	Sig.
Tinggi_busa_sebelum	Between Groups	43.269	2	21.634	1497.769	.000
	Within Groups	.087	6	.014		
	Total	43.356	8			
Tinggi_busa_sesudah	Between Groups	11.616	2	5.808	127.488	.000
	Within Groups	.273	6	.046		
	Total	11.889	8			
Stabilitas_busa_sebelum	Between Groups	400.404	2	200.202	12.981	.007
	Within Groups	92.533	6	15.422		

	Total	492.937	8			
Stabilitas_busa_sesudah	Between Groups	414.603	2	207.302	11.828	.008
	Within Groups	105.162	6	17.527		
	Total	519.765	8			

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
Tinggi_busa_sebelum	Formula 1	Formula 2	2.50000*	.09813	.000	2.1989	2.8011
		Formula 3	5.36667*	.09813	.000	5.0656	5.6678
	Formula 2	Formula 1	-2.50000*	.09813	.000	-2.8011	-2.1989
		Formula 3	2.86667*	.09813	.000	2.5656	3.1678
	Formula 3	Formula 1	-5.36667*	.09813	.000	-5.6678	-5.0656
		Formula 2	-2.86667*	.09813	.000	-3.1678	-2.5656
Tinggi_busa_sesudah	Formula 1	Formula 2	1.93333*	.17427	.000	1.3986	2.4680
		Formula 3	2.70000*	.17427	.000	2.1653	3.2347
	Formula 2	Formula 1	-1.93333*	.17427	.000	-2.4680	-1.3986
		Formula 3	.76667*	.17427	.011	.2320	1.3014
	Formula 3	Formula 1	-2.70000*	.17427	.000	-3.2347	-2.1653
		Formula 2	-.76667*	.17427	.011	-1.3014	-.2320
Stabilitas_busa_sebelum	Formula 1	Formula 2	-5.18333	3.20647	.310	-15.0217	4.6550
		Formula 3	-16.01000*	3.20647	.006	-25.8483	-6.1717
	Formula 2	Formula 1	5.18333	3.20647	.310	-4.6550	15.0217
		Formula 3	-10.82667*	3.20647	.034	-20.6650	-.9883
	Formula 3	Formula 1	16.01000*	3.20647	.006	6.1717	25.8483
		Formula 2	10.82667*	3.20647	.034	.9883	20.6650
Stabilitas_busa_sesudah	Formula 1	Formula 2	.55333	3.41828	.986	-9.9349	11.0416
		Formula 3	-14.11333*	3.41828	.015	-24.6016	-3.6251
	Formula 2	Formula 1	-.55333	3.41828	.986	-11.0416	9.9349
		Formula 3	-14.66667*	3.41828	.012	-25.1549	-4.1784
	Formula 3	Formula 1	14.11333*	3.41828	.015	3.6251	24.6016
		Formula 2	14.66667*	3.41828	.012	4.1784	25.1549

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

Tinggi_busa_sebelumTukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
Formula 3	3	2.2333		
Formula 2	3		5.1000	
Formula 1	3			7.6000
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Tinggi_busa_sesudahTukey HSD^a

Formula	N	Subset for alpha = 0.05		
		1	2	3
Formula 3	3	1.5333		
Formula 2	3		2.3000	
Formula 1	3			4.2333
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Stabilitas_busa_sebelumTukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 1	3	81.1500	
Formula 2	3	86.3333	
Formula 3	3		97.1600
Sig.		.310	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Stabilitas_busa_sesudahTukey HSD^a

Formula	N	Subset for alpha = 0.05	
		1	2
Formula 2	3	81.2000	
Formula 1	3	81.7533	
Formula 3	3		95.1600
Sig.		.986	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.