LAMPIRAN

Lampiran 1. Determinasi Tanaman

INSTITUT TEKNOLOGI BANDUNG
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Nomor : 2208/I1.C02.2/PL/2019. 18 April 2019
Hal : Determinasi tumbuhan

Kepada Yth.
Ketua
Sekolah Tinggi Farmasi Bandung
Jalan Soekarno Hatta No. 754
Bandung

Memperhatikan surat permintaan Saudara dalam surat No. 1304/WKI-S1/x/2018 tanggal 1 November 2018 mengenai determinasi tumbuhan, dengan ini kami sampaikan bahwa setelah dilakukan determinasi oleh staf kami, sampel tumbuhan yang dibawa oleh Sdr. Melestri Eliyanti (NPM: 131710295), adalah :

Divisi	:	Magnoliophyta
Kelas	:	Magnoliopsida (Dicots)
Anak kelas	:	Dilleniidae
Bangsa	:	Theales
Nama suku / familia	:	Theaceae
Nama jenis / species	:	*Camellia sinensis* (L.) Kuntze
Sinonim	:	*Thea sinensis* L., *Camellia thea* Link
Nama umum	:	Tea (Inggris), teh (Indonesia)
Buku acuan	:	1. Backer, C.A. & Bakhuizen van den Brink, Jr. R.C. 1963. Flora of Java. Volume I. N.V.P. Noordhoff – Groningen, the Netherlands. pp. 320. 2. Schoorel, A.F. & van der Vossen, H.A.M. 2000. *Camellia sinensis* (L.) Kuntze. In: van der Vossen, H.A.M. & Wessel, M. (Eds.). Plant Resources of South-East Asia No. 16 Stimulants. Backhuy Publisher, Leiden. pp. 55 – 63. 3. Cronquist, A. 1981. An Integrated System of Classification of Flowering Plants, Columbia Press, New York. pp. Xiii – Xviii.

Demikian yang kami sampaikan. Atas perhatian dan kerjasama yang diberikan, kami ucapkan terima kasih.

Wakil Dekan Bidang Sumber Daya,

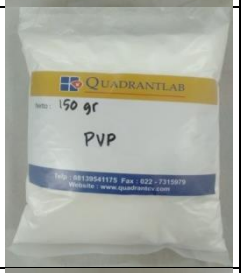
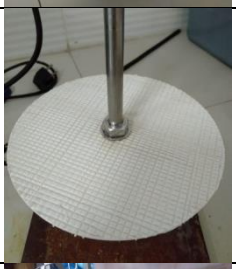
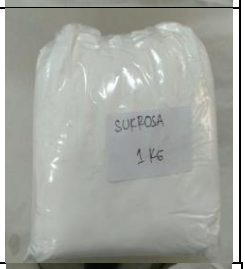
INSTITUT TEKNOLOGI BANDUNG SEKOLAH ILMU & TEKNOLOGI HAYATI

Dr. Inawati
NIP. 196205071988320 01

Tembusan:
Dekan SITH ITB, sebagai laporan.

Scanned with CamScanner

Lampiran 2. Alat dan Bahan

Alat	Gambar	Bahan	Gambar
Overhead stirrer		Laktosa	
Wadah sferoniser		PVP	
Pelat sferoniser		Sukrosa	
Penyalutan *Pan coating* *Spray gun* Corong pisah *Hair dryer*		Ektruder (Mesh 16)	

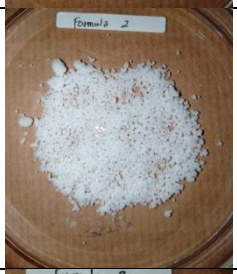
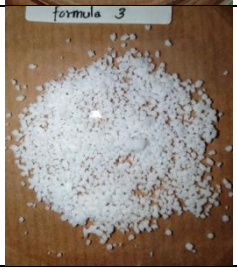
Lampiran 3. Ekstraksi Teh

Proses	Gambar	Proses	Gambar
Teh hijau dan Teh hitam		Penyaringan	
Teh Hijau		Ekstrak Teh Hijau	
Teh Hitam		Ekstrak Teh Hitam	
Ekstraksi Teh			

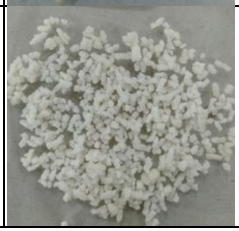
Lampiran 4. Optimasi Pengikat

Formula	Ekstrudat	Sferoid
F1		
F2		
F3		

Lampiran 5. Optimasi Pemanis

Formula	Ekstrudat	Sferoid
F1		
F2		
F3		

Lampiran 6. Hasil Pelet Salut

Formula	Gambar
PI1	
PI2	
PI3	
PI4	

Lampiran 7. Evaluasi Pelet

Evaluasi	Gambar
Organoleptik	
Uji kadar air	
Uji sudut diam	
Uji waktu larut	

Lampiran 8. Pelet Yang Telah Dilarutkan

Formula	Gambar
PI1	
PI2	
PI3	
PI4	
P5	

Lampiran 9. Data Evaluasi

1. Optimasi Pengikat

A. Organoleptik

Evaluasi		**F1**	**F2**	**F3**
Organoleptik	Bentuk	Sferis	Sferis	Sferis
	Warna	Putih	Putih	Putih
	Bau	Khas	Khas	Khas

B. Laju alir

Pengujian ke-	**Laju alir (gram/detik)**		
	F1	F2	F3
1	7,000	8,009	7,878
2	7,129	8,065	8,039
3	7,677	7,895	7,626
Rata-rata	7,269	7,990	7,848

C. Sudut diam

Pengujian ke-	**Sudut diam (^{o})**		
	F1	F2	F3
1	38,822	35,245	35,777
2	42,03	34,157	34,046
3	39,565	36,15	40,142
Rata-rata	40,139	35,184	36,655

D. Kadar air

Pengukuran ke-	**Kadar air (%MC)**		
	F1	**F2**	**F3**
1	2,87	2,64	2,54
2	2,57	2,85	2,00
3	2,46	2,81	2,40
Rata-rata	2,63	2,77	2,61

2. Optimasi Pemanis

A. Organoleptik

Evaluasi		F1	F2	F3
Organoleptik	Bentuk	Sferis	Sferis	Sferis
	Warna	Putih	Putih	Putih
	Bau	Khas	Khas	Khas

B. Laju alir

Pengujian ke-	Laju alir (gram/detik)		
	F1	F2	F3
1	8,45	12,2	10,00
2	9,54	12,17	10,35
3	7,4	11,31	9,29
Rata-rata	8,46	11,89	9,88

C. Sudut diam

Pengujian ke-	Sudut diam (^{O})		
	F1	F2	F3
1	35,427	38,491	38,066
2	36,212	37,054	38,29
3	36,234	36,611	38,116
Rata-rata	35,958	37,385	38,157

D. Kadar air

Pengukuran ke-	Kadar air (%MC)		
	F1	**F2**	**F3**
1	1,46	1,66	1,87
2	1,48	1,56	1,76
3	1,31	1,69	1,91
Rata-rata	1,42	1.64	1,85

3. Evaluasi Pelet Inti

Evaluasi		P1	P2	P3	Rata-rata
Organoleptik	Bentuk	Sferis	Sferis	Sferis	Sferis
	Warna	Putih	Putih	Putih	Putih
	Bau	Khas	Khas	Khas	Khas
Laju alir (gram/detik)		9,398	10,309	11,16	10,289
Sudut diam (^{o})		36.444	34,844	36,870	36,053
Kadar air (%MC)		2,70	2,45	2,68	2,61

4. Evaluasi Pelet Instan

A. Organoleptik

Evaluasi		PI1	PI2	PI3	PI4
Organoleptik	Bentuk	Sferis	Sferis	Sferis	Sferis
	Warna	Kuning	Kecoklatan	Coklat	Kekuningan
	Bau	Khas	Khas	Khas	Khas

B. Laju alir

Pengujian ke-	Formula			
	PI1	PI2	PI3	PI4
1	6,784	5,76	6,017	9,294
2	6,068	5,931	5,882	9,225
3	5,225	5,767	5,537	8,666
4	5,149	5,945	5,214	8,292
5	4,864	5,862	4,926	8,224
Rata-rata	5,618	5,853	5,515	8,740

C. Sudut diam

Pengujian ke-	Sudut diam (^{O})			
	PI1	PI2	PI3	PI4
1	36,302	34,695	35,579	35,579
2	44,105	36,158	35,287	35,140
3	42,946	40,619	43,064	35,433
Rata-rata	41,118	37,157	37,977	35,384

D. Kadar air

Pengukuran ke-	Kadar air (%MC)			
	PI1	PI2	PI3	PI4
1	1,87	1,53	1,55	1,29
2	1,76	1,77	1,91	1,27
3	1,88	1,53	1,84	1,34
Rata-rata	1,84	1,61	1,77	1,30

E. Uji waktu larut

Formula	Waktu larut
PI1	3 menit
PI2	3 menit
PI3	3 menit
PI4	5 menit

Lampiran 10. Hasil Uji Statistik

1. Optimasi Pengikat

A. Laju Alir

Descriptives

Laju alir

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Formula 1	3	7,26867	,359461	,207535	6,37572	8,16162	7,000	7,677
Formula 2	3	7,98967	,086633	,050018	7,77446	8,20488	7,895	8,065
Formula 3	3	7,84767	,208164	,120184	7,33056	8,36478	7,626	8,039
Total	9	7,70200	,392961	,130987	7,39994	8,00406	7,000	8,065

ANOVA

Laju alir

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,875	2	,438	7,292	,025
Within Groups	,360	6	,060		
Total	1,235	8			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Laju alir

	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	Formula 1	Formula 2	-,721000*	,200028	,011	-1,21045	-,23155
		Formula 3	-,579000*	,200028	,028	-1,06845	-,08955
	Formula 2	Formula 1	,721000*	,200028	,011	,23155	1,21045
		Formula 3	,142000	,200028	,504	-,34745	,63145
	Formula 3	Formula 1	,579000*	,200028	,028	,08955	1,06845
		Formula 2	-,142000	,200028	,504	-,63145	,34745

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

Homogeneous Subsets
Laju alir

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	Formula 1	3	7,26867	
	Formula 3	3		7,84767
	Formula 2	3		7,98967
	Sig.		1,000	,504

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

B. Sudut Diam

Descriptives

Sudut diam

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Formula 1	3	40,13900	1,679263	,969523	35,96748	44,31052	38,822	42,030
Formula 2	3	35,18400	,997899	,576137	32,70508	37,66292	34,157	36,150
Formula 3	3	36,65500	3,141412	1,813695	28,85130	44,45870	34,046	40,142
Total	9	37,32600	2,877119	,959040	35,11445	39,53755	34,046	42,030

ANOVA

Sudut diam

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	38,854	2	19,427	4,259	,071
Within Groups	27,368	6	4,561		
Total	66,223	8			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Sudut diam

	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	Formula 1	Formula 2	4,955000*	1,743827	,030	,68801	9,22199
		Formula 3	3,484000	1,743827	,093	-,78299	7,75099
	Formula 2	Formula 1	-4,955000*	1,743827	,030	-9,22199	-,68801
		Formula 3	-1,471000	1,743827	,431	-5,73799	2,79599
	Formula 3	Formula 1	-3,484000	1,743827	,093	-7,75099	,78299
		Formula 2	1,471000	1,743827	,431	-2,79599	5,73799

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

Homogeneous Subsets
Sudut diam

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	Formula 2	3	35,18400	
	Formula 3	3	36,65500	36,65500
	Formula 1	3		40,13900
	Sig.		,431	,093

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

C. Kadar Air

Descriptives

Kadar air

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Formula 1	3	2,63333	,212211	,122520	2,10617	3,16049	2,460	2,870
Formula 2	3	2,76667	,111505	,064377	2,48967	3,04366	2,640	2,850
Formula 3	3	2,31333	,280238	,161795	1,61718	3,00948	2,000	2,540
Total	9	2,57111	,273333	,091111	2,36101	2,78121	2,000	2,870

ANOVA

Kadar air

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	,326	2	,163	3,592	,094
Within Groups	,272	6	,045		
Total	,598	8			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Kadar air

	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	Formula 1	Formula 2	-,133333	,173845	,472	-,55872	,29205
		Formula 3	,320000	,173845	,115	-,10538	,74538
	Formula 2	Formula 1	,133333	,173845	,472	-,29205	,55872
		Formula 3	,453333*	,173845	,040	,02795	,87872
	Formula 3	Formula 1	-,320000	,173845	,115	-,74538	,10538
		Formula 2	-,453333*	,173845	,040	-,87872	-,02795

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

Homogeneous Subsets
Kadar air

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	Formula 3	3	2,31333	
	Formula 1	3	2,63333	2,63333
	Formula 2	3		2,76667
	Sig.		,115	,472

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

2. Optimasi Pemanis

A. Laju Alir

Descriptives

Laju alir

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Formula 1	3	8,46333	1,070062	,617801	5,80515	11,12152	7,400	9,540
Formula 2	3	11,89333	,505404	,291795	10,63784	13,14883	11,310	12,200
Formula 3	3	9,88000	,540093	,311823	8,53834	11,22166	9,290	10,350
Total	9	10,07889	1,628254	,542751	8,82730	11,33048	7,400	12,200

ANOVA

Laju alir

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	17,825	2	8,913	15,801	,004
Within Groups	3,384	6	,564		
Total	21,210	8			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Laju alir

	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	Formula 1	Formula 2	-3,430000*	,613219	,001	-4,93049	-1,92951
		Formula 3	-1,416667	,613219	,060	-2,91716	,08383
	Formula 2	Formula 1	3,430000*	,613219	,001	1,92951	4,93049
		Formula 3	2,013333*	,613219	,017	,51284	3,51383
	Formula 3	Formula 1	1,416667	,613219	,060	-,08383	2,91716
		Formula 2	-2,013333*	,613219	,017	-3,51383	-,51284

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

Homogeneous Subsets
Laju alir

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	Formula 1	3	8,46333	
	Formula 3	3	9,88000	
	Formula 2	3		11,89333
	Sig.		,060	1,000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

B. Sudut Diam

Descriptives

Sudut Diam

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Formula 1	3	35,95767	,459702	,265409	34,81570	37,09963	35,427	36,234
Formula 2	3	37,38533	,982821	,567432	34,94387	39,82680	36,611	38,491
Formula 3	3	38,15733	,117581	,067886	37,86525	38,44942	38,066	38,290
Total	9	37,16678	1,10989	,369965	36,31364	38,01992	35,427	38,491

ANOVA

Sudut Diam

	Sum of Squares	Df	Mean Square	F	Sig.
Between Groups	7,473	2	3,736	9,411	,014
Within Groups	2,382	6	,397		
Total	9,855	8			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Sudut Diam

	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	Formula 1	Formula 2	-1,427667*	,514477	,032	-2,68655	-,16879
		Formula 3	-2,199667*	,514477	,005	-3,45855	-,94079
	Formula 2	Formula 1	1,427667*	,514477	,032	,16879	2,68655
		Formula 3	-,772000	,514477	,184	-2,03088	,48688
	Formula 3	Formula 1	2,199667*	,514477	,005	,94079	3,45855
		Formula 2	,772000	,514477	,184	-,48688	2,03088

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

Homogeneous Subsets
Sudut Diam

	Formula	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	Formula 1	3	35,95767	
	Formula 2	3		37,38533
	Formula 3	3		38,15733
	Sig.		1,000	,184

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

C. Kadar Air

Descriptives

Kadar air

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
Formula 1	3	1,41667	,092916	,053645	1,18585	1,64748	1,310	1,480
Formula 2	3	1,63667	,068069	,039299	1,46757	1,80576	1,560	1,690
Formula 3	3	1,84667	,077675	,044845	1,65371	2,03962	1,760	1,910
Total	9	1,63333	,198746	,066249	1,48056	1,78610	1,310	1,910

ANOVA

Kadar air

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,277	2	,139	21,560	,002
Within Groups	,039	6	,006		
Total	,316	8			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Kadar air

	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	Formula 1	Formula 2	-,220000*	,065490	,015	-,38025	-,05975
		Formula 3	-,430000*	,065490	,001	-,59025	-,26975
	Formula 2	Formula 1	,220000*	,065490	,015	,05975	,38025
		Formula 3	-,210000*	,065490	,018	-,37025	-,04975
	Formula 3	Formula 1	,430000*	,065490	,001	,26975	,59025
		Formula 2	,210000*	,065490	,018	,04975	,37025

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

Homogeneous Subsets
Kadar air

	Formula	N	Subset for alpha = 0.05		
			1	2	3
Duncan[a]	Formula 1	3	1,41667		
	Formula 2	3		1,63667	
	Formula 3	3			1,84667
	Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

3. Evaluasi Pelet Instan

A. Laju Alir

Descriptives

Laju alir

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
PI 1	5	5,61800	,791357	,353905	4,63540	6,60060	4,864	6,784
PI 2	5	5,85300	,087570	,039162	5,74427	5,96173	5,760	5,945
PI 3	5	5,51520	,454065	,203064	4,95140	6,07900	4,926	6,017
PI 4	5	8,74020	,503631	,225231	8,11486	9,36554	8,224	9,294
Total	20	6,43160	1,454678	,325276	5,75079	7,11241	4,864	9,294

ANOVA

Laju alir

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	35,831	3	11,944	43,680	,000
Within Groups	4,375	16	,273		
Total	40,206	19			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Laju alir

	(I) Pelet instan	(J) Pelet instan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	PI 1	PI 2	-,235000	,330716	,488	-,93609	,46609
		PI 3	,102800	,330716	,760	-,59829	,80389
		PI 4	-3,122200*	,330716	,000	-3,82329	-2,42111
	PI 2	PI 1	,235000	,330716	,488	-,46609	,93609
		PI 3	,337800	,330716	,322	-,36329	1,03889
		PI 4	-2,887200*	,330716	,000	-3,58829	-2,18611
	PI 3	PI 1	-,102800	,330716	,760	-,80389	,59829
		PI 2	-,337800	,330716	,322	-1,03889	,36329
		PI 4	-3,225000*	,330716	,000	-3,92609	-2,52391
	PI 4	PI 1	3,122200*	,330716	,000	2,42111	3,82329
		PI 2	2,887200*	,330716	,000	2,18611	3,58829
		PI 3	3,225000*	,330716	,000	2,52391	3,92609

Homogeneous Subsets
Laju alir

	Pelet instan	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	PI 3	5	5,51520	
	PI 1	5	5,61800	
	PI 2	5	5,85300	
	PI 4	5		8,74020
	Sig.		,348	1,000

B. Sudut Diam

Descriptives

Sudut diam

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
PI 1	3	41,11767	4,210559	2,430967	30,65806	51,57727	36,302	44,105
PI 2	3	37,15733	3,085846	1,781614	29,49167	44,82300	34,695	40,619
PI 3	3	37,97667	4,408178	2,545063	27,02614	48,92719	35,287	43,064
PI 4	3	35,38400	,223564	,129075	34,82864	35,93936	35,140	35,579
Total	12	37,90892	3,633040	1,048768	35,60059	40,21724	34,695	44,105

ANOVA

Sudut diam

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	51,722	3	17,241	1,476	,293
Within Groups	93,467	8	11,683		
Total	145,189	11			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Sudut diam

	(I) Pelet instan	(J) Pelet instan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	PI 1	PI 2	3,960333	2,790856	,194	-2,47539	10,39606
		PI 3	3,141000	2,790856	,293	-3,29473	9,57673
		PI 4	5,733667	2,790856	,074	-,70206	12,16939
	PI 2	PI 1	-3,960333	2,790856	,194	-10,39606	2,47539
		PI 3	-,819333	2,790856	,777	-7,25506	5,61639
		PI 4	1,773333	2,790856	,543	-4,66239	8,20906
	PI 3	PI 1	-3,141000	2,790856	,293	-9,57673	3,29473
		PI 2	,819333	2,790856	,777	-5,61639	7,25506
		PI 4	2,592667	2,790856	,380	-3,84306	9,02839
	PI 4	PI 1	-5,733667	2,790856	,074	-12,16939	,70206
		PI 2	-1,773333	2,790856	,543	-8,20906	4,66239
		PI 3	-2,592667	2,790856	,380	-9,02839	3,84306

Homogeneous Subsets
Sudut diam

	Pelet instan	N	Subset for alpha = 0.05
			1
Duncan[a]	PI 4	3	35,38400
	PI 2	3	37,15733
	PI 3	3	37,97667
	PI 1	3	41,11767
	Sig.		,090

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

C. Kadar Air

Descriptives

Kadar air

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
PI 1	3	1,8367	,06658	,03844	1,6713	2,0021	1,76	1,88
PI 2	3	1,6100	,13856	,08000	1,2658	1,9542	1,53	1,77
PI 3	3	1,7667	,19088	,11020	1,2925	2,2408	1,55	1,91
PI 4	3	1,3000	,03606	,02082	1,2104	1,3896	1,27	1,34
Total	12	1,6283	,24022	,06935	1,4757	1,7810	1,27	1,91

ANOVA

Kadar air

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	,512	3	,171	11,125	,003
Within Groups	,123	8	,015		
Total	,635	11			

Post Hoc Tests
Multiple Comparisons

Dependent Variable: Kadar air

	(I) Pelet instan	(J) Pelet instan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
LSD	PI 1	PI 2	,22667	,10113	,055	-,0065	,4599
		PI 3	,07000	,10113	,508	-,1632	,3032
		PI 4	,53667*	,10113	,001	,3035	,7699
	PI 2	PI 1	-,22667	,10113	,055	-,4599	,0065
		PI 3	-,15667	,10113	,160	-,3899	,0765
		PI 4	,31000*	,10113	,015	,0768	,5432
	PI 3	PI 1	-,07000	,10113	,508	-,3032	,1632
		PI 2	,15667	,10113	,160	-,0765	,3899
		PI 4	,46667*	,10113	,002	,2335	,6999
	PI 4	PI 1	-,53667*	,10113	,001	-,7699	-,3035
		PI 2	-,31000*	,10113	,015	-,5432	-,0768
		PI 3	-,46667*	,10113	,002	-,6999	-,2335

Homogeneous Subsets
Kadar air

	Pelet instan	N	Subset for alpha = 0.05	
			1	2
Duncan[a]	PI 4	3	1,3000	
	PI 2	3		1,6100
	PI 3	3		1,7667
	PI 1	3		1,8367
	Sig.		1,000	,064

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 11. Kuisioner Uji Hedonik

KUISIONER UJI HEDONIK

Panelis yang terhormat,

1. Terima kasih atas partisipasi anda untuk mengisi kuisioner yang saya ajukan. Semua keterangan yang diberikan akan digunakan untuk kepentingan kelengkapan data dan perbaikan formulasi pelet instan.
2. Pengisian dilakukan dengan memberikan nilai sesuai dengan pendapat anda setelah mencoba minuman teh instan yang disajikan pada kolom yang disediakan.
3. Identitas panelis akan kami rahasiakan.

Nama :
Umur :
Alamat :
Pekerjaan :
Tabel yang harus diisi :

No.	Tanggapan	Nilai				
		P1	P2	P3	P4	P5
1.	Aroma					
2.	rasa					
3.	warna					

Keterangan :
Kurang suka : 1
Agak suka : 2
Suka : 3
Sangat suka : 4

Bandung, ...2019

( )

Lampiran 12. Data Uji Hedonik

	FORMULA														
No.	**PI1**			**PI2**			**PI3**			**PI4**			**P5**		
	A	**R**	**W**	**A**	**R**	**W**	**A**	**R**	**W**	**A**	**R**	**W**	**A**	**R**	**W**
1	2	1	3	2	2	3	2	2	3	2	1	1	4	4	4
2	2	2	2	3	2	2	3	3	3	1	1	1	4	4	4
3	1	1	3	1	1	3	1	1	3	1	1	2	2	3	4
4	2	2	2	2	1	2	1	1	3	1	2	1	4	4	3
5	3	2	3	3	2	2	3	4	2	3	2	1	4	4	3
6	1	1	2	1	1	2	1	1	3	1	1	1	3	3	4
7	1	1	3	1	1	3	1	1	4	1	1	1	4	4	4
8	1	1	3	1	1	3	1	2	4	1	1	1	4	4	3
9	1	1	1	1	1	2	2	1	3	1	1	1	4	4	3
10	1	1	2	1	1	2	2	1	3	1	1	1	4	4	4
11	2	1	3	2	2	2	2	3	3	2	3	3	3	3	3
12	2	1	2	2	1	3	3	2	3	2	2	2	4	3	3
13	1	1	2	1	1	2	1	2	2	1	2	1	1	2	2
14	2	3	3	2	4	3	3	4	4	2	4	3	4	2	2
15	1	1	1	1	1	1	1	1	2	1	1	1	3	3	3
16	2	3	3	3	2	3	3	2	3	3	2	3	4	4	4
17	2	2	2	2	2	2	2	2	2	2	2	2	4	4	4
18	3	2	3	3	2	3	3	2	3	3	2	2	3	4	4
19	1	1	4	1	1	4	1	1	4	1	4	3	4	3	3
20	1	1	1	1	1	1	1	1	2	1	1	1	4	4	1
21	3	3	3	3	3	3	3	3	3	3	2	1	4	4	4
22	2	1	3	2	1	3	2	1	3	3	3	3	4	4	4
23	2	4	2	2	4	3	2	4	2	2	3	4	3	2	1
24	1	1	2	1	1	2	1	1	1	1	1	1	4	3	4
25	1	2	3	1	2	3	1	3	3	1	1	1	1	4	4
26	1	2	2	2	2	2	2	3	3	1	2	1	4	4	3
27	3	2	2	3	2	2	3	2	3	3	2	1	4	4	4
28	1	2	1	1	2	2	1	2	1	1	2	1	4	4	4
29	1	1	2	1	1	2	2	2	3	1	2	1	4	3	4
30	3	3	3	3	3	3	4	3	3	1	2	4	4	4	3

Keterangan :

A : Aroma

R : Rasa

W :Warna

aroma	
PI1	50
PI2	53
PI3	58
PI4	48
P5	107

rasa	
PI1	50
PI2	51
PI3	61
PI4	55
P5	106

Warna	
PI1	71
PI2	73
PI3	84
PI4	50
P5	100

Formula	**Hedonik**	**Jawab**	**Skor**	**Nilai**	**Total**
PI1	Rasa	50	3	150	321
	Aroma	50	2	100	
	Warna	71	1	71	
PI2	Rasa	51	3	153	332
	Aroma	53	2	106	
	Warna	73	1	73	
PI3	Rasa	61	3	183	383
	Aroma	58	2	116	
	Warna	84	1	84	
PI4	Rasa	55	3	165	311
	Aroma	48	2	96	
	Warna	50	1	50	
P5	Rasa	106	3	318	632
	Aroma	107	2	214	
	Warna	100	1	100	

Lampiran 13. Parameter Penyalutan

coater	Pan coating conventional 9,6 L
Kemiringan panci	45-50°
Solvent	Aquadest
Solid content (%w/w)	20
Pellet charge (g)	400
Inlet air temperature (°C)	70°C
Spray equipment	Iwata WA-101
Fluid nozzle (mm)	0.8
Atomizing air pressure (Bar)	1
Outlet Nozzle air pressure (Bar)	4
Spray rate(g/min)	3
Baffles	4
Pan speed (rpm)	60