

## DAFTAR PUSTAKA

- Abdullah, A. H. D., Putri, O. D., Fikriyyah, A. K., Nissa, R. C., & Intadiana, S. (2020). Effect of microcrystalline cellulose on characteristics of cassava starch-based bioplastic. *Polymer-Plastics Technology and Materials*, 59(12), 1250–1258. <https://doi.org/10.1080/25740881.2020.1738465>
- Adil, Patang, & Sukainah, A. (2020). 30 Sintesis Kulit Ubi Kayu ( manihot escul enta ) Sebagai Bahan Dasar Pembuatan K emasan Biodegradable. *Jurnal Pendidikan Teknologi Pertanian*, 6(1), 55–64.
- Agustina, R., Fadhil, R., & Mustaqimah. (2021). Organoleptic test using the hedonic and descriptive methods to determine the quality of Pliek U. *IOP Conference Series: Earth and Environmental Science*, 644(1). <https://doi.org/10.1088/1755-1315/644/1/012006>
- Aini, Q. (2023). Pengaplikasian Plastik Biodegradable Berpenyerap Oksigen Butylated Hydroxytoluene Dengan Penguat Mikrokristalin Pada Buah Apel (Malus domestica Borkh) Fresh-cut. Universitas Hasanuddin.
- Andrade, M. A., Barbosa, C. H., Mariño-cortegoso, S., Barbosa-pereira, L., Send, R., Buonocore, G. G., Stanzone, M., Coelho, A., Correia, C. B., Saraiva, M., Rodr, A., Quir, D., Vilarinho, F., Khwaldia, K., Silva, A. S., & Ramos, F. (2023). LDPE and PLA Active Food Packaging Incorporated with Lemon by-Products Extract: Preparation, Characterization and Effectiveness to Delay Lipid Oxidation in Almonds and Beef Meat. *Foods*, 12, 2450.
- ASTM D882. (2012). Standard Test Method for Tensile Properties of Thin Plastic Sheeting (pp. 1–11). <https://www.astm.org/d0882-12.html>
- Cvetković, D., Stojilković, P., Zvezdanović, J., Stanojević, J., Stanojević, L., & Karabegović, I. (2020). The identification of volatile aroma compounds from local fruit based spirits using a headspace solid-phase microextraction technique coupled with the gas chromatography-mass spectrometry. *Advanced Technologies*, 9(2), 19–28. <https://doi.org/10.5937/savteh2002019c>
- Demasta, E. K., Al-Baarri, A. N., & Legowo, A. M. (2020). Studi Perubahan Warna pada Buah Apel (Malus domestica Borkh.) dengan Perlakuan Asam Hipoiodous (HIO). *Jurnal Teknologi Pangan*, 4(2), 145–148.
- El-Rafey, E., Walid, W. M., Syala, E., Ezzat, A. A., & Ali, S. F. A. (2022). A study on the physical, mechanical, thermal properties and soil biodegradation of HDPE blended with PBS/HDPE-g-MA. *Polymer Bulletin*, 79(4), 2383–2409. <https://doi.org/10.1007/s00289-021-03623-y>
- Fadilla, A., Amalia, V., & Wahyuni, I. R. (2023). Pengaruh Selulosa Ampas Tebu (Saccharum officinarum) sebagai Zat Pengisi Plastik Biodegradable berbasis Pati Kulit Singkong (Manihot esculenta ). In Gunung Djati Conference Series, 34(1), 69–80.

- Faqih, T. A., & Fatiatun. (2022). Plastic Bag Diet As A Form Of Environmental Concerns Diet Kantong Plastik Sebagai Bentuk Kepedulian Terhadap Lingkungan Prodi Ilmu Al- Qur ' an dan Tafsir , Fakultas Syariah dan Hukum , Universitas Sains Al - Qur ' an Prodi Pendidikan Fisika , Fakultas Il. 6(2).
- Gao, G., Zhang, X., Yan, Z., Cheng, Y., Li, H., & Xu, G. (2022). Monitoring Volatile Organic Compounds in Different Pear Cultivars during Storage Using HS-SPME with GC-MS. *Foods*, 11(23), 1–12. <https://doi.org/10.3390/foods11233778>
- Gheorghita Puscaselu, R., Amariei, S., Norocel, L., & Gutt, G. (2020). New edible packaging material with function in shelf life extension: Applications for the meat and cheese industries. *Foods*, 9(5). <https://doi.org/10.3390/foods9050562>
- Hassan, N. R. N., & Ismail, N. M. (2020). The Effect of MAPE Compatibilizer Agent on the Tensile Strength of Recycled PET/HDPE Plastic Composite. In *Lecture Notes in Mechanical Engineering*. [https://doi.org/10.1007/978-981-15-0950-6\\_21](https://doi.org/10.1007/978-981-15-0950-6_21)
- JIS K 7113:2019. (2019). Plastics - Determination of thickness. Japanese Industrial Standards Committee (JISC)
- Kumar, S., & Thakur, K. S. (2020). Active packaging technology to retain storage quality of pear cv. "Bartlett" during shelf-life periods under ambient holding after periodic cold storage. *Packaging Technology and Science*, 33(7), 239–254. <https://doi.org/10.1002/pts.2501>
- Kustiyah, E., Novitasari, D., Wardani, L. A., Hasaya, H., & Widianoro, M. (2023). Pemanfaatan Limbah Ampas tebu untuk Pembuatan Bioplastik Biodegradable. *Jurnal Teknologi Lingkungan*, 24(2), 300–306.
- Liu, Z., Lin, D., Lopez-Sanchez, P., & Yang, X. (2020). Characterizations of bacterial cellulose nanofibers reinforced edible films based on konjac glucomannan. *International Journal of Biological Macromolecules*, 145, 634–645. <https://doi.org/10.1016/j.ijbiomac.2019.12.109>
- Ma, Z. L., Tsou, C. H., Cui, X., Wu, J., Lin, L., Wen, H., De Guzman, M. R., Wang, C. Y., Liu, H., Xiong, Q., & Liao, B. (2022). Barrier properties of nanocomposites from high-density polyethylene reinforced with natural attapulgite. *Current Research in Green and Sustainable Chemistry*, 5(December 2021), 100314. <https://doi.org/10.1016/j.crgsc.2022.100314>
- Maulida, Siagian, M., & Tarigan, P. (2016). Production of Starch Based Bioplastic from Cassava Peel Reinforced with Microcrystalline Cellulose Avicel PH101 Using Sorbitol as Plasticizer. *Journal of Physics: Conference Series*, 710(1). <https://doi.org/10.1088/1742-6596/710/1/012012>
- Moon, K. M., Kwon, E. Bin, Lee, B., & Kim, C. Y. (2020). Recent Trends in Controlling the Enzymatic Browning of Fruit and Vegetable Products. *Molecules*, 25(12). <https://doi.org/10.3390/molecules25122754>

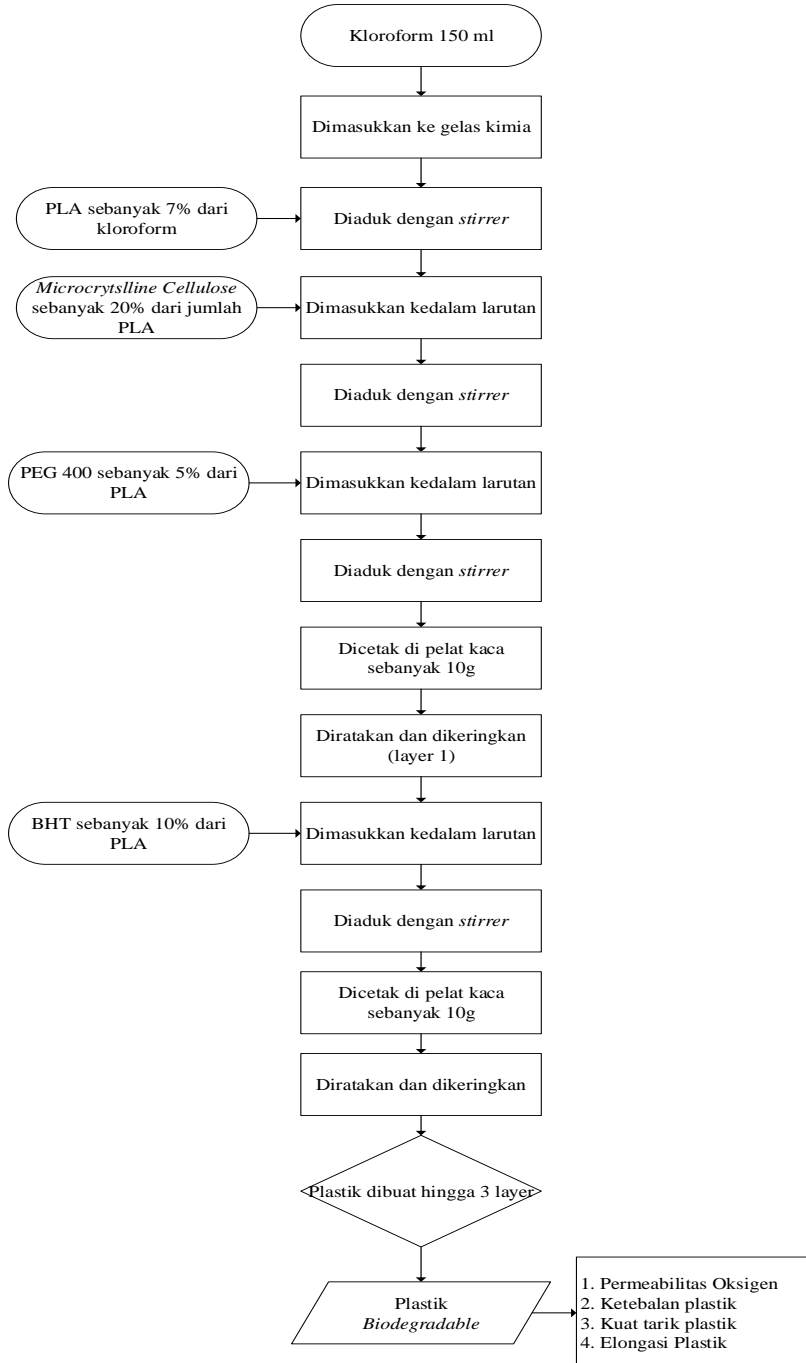
- Ni Luh Putu Putri, S., Suaniti, N. M., & Wirawan, I. G. P. (2023). Increased Attractiveness and Shelf Life of Siamese Tangerines (*Citrus Nobilis* L.) Using Various Palmitic, Stearic, and Oleic Acid Emulsions and Mixtures. *AJARCADE (Asian Journal of Applied Research for Community Development and Empowerment)*, 7(2). <https://doi.org/10.29165/ajarcde.v7i2.204>
- Nogales-Delgado, S. (2021). Polyphenoloxidase (Ppo): Effect, current determination and inhibition treatments in fresh-cut produce. *Applied Sciences (Switzerland)*, 11(17). <https://doi.org/10.3390/app11177813>
- Nurkhasanah, M. A., Si, A., Mochammad, S., Bachri, S., Si, M., Si, D. S., & Yuliani, M. P. (2023). *Antioksidan dan Stres Oksidatif*.
- Pakerti, L. H. (2021). Karakteristik Plastik Biodegradable dari Pati Ubi Jalar Dengan Variasi Kitosan. *Journal Printing and Packaging Technology*, 2(1), 38–47.
- Pangestu, A. R. (2018). Pengaruh Pemberian Butylated Hydroxytoluene (2,6-di-tert-butyl-4-methylphenol) Per Oral Dosis Bertingkat Terhadap Gambaran Histopatologis Paru Tikus Wistar. In Universitas Diponegoro.
- Panjaitan, R. M., Irdoni., & Bahrudin. (2017). Pengaruh Kadar dan Ukuran Selulosa Berbasis Batang Pisang Terhadap Sifat dan Morfologi Bioplastik Berbahan Pati Umbi Talas. *Jurnal Jom FTEKNIK*, 4(1), 3.
- Putra, E. P. D., & Saputra, H. (2020). Karakterisasi Plastik Biodegradable Dari Pati Limbah Kulit Pisang Muli Dengan Plasticizer Sorbitol. *Jurnal Teknologi Pertanian Andalas*, 24(1), 1–8.
- Rivaroli, S., Calvia, M., Spadoni, R., Tartarini, S., Gregori, R., Calvo-Porrà, C., & Canavari, M. (2024). Sensory Perception and Willingness to Pay for a Local Ancient Pear Variety: Evidence from In-Store Experiments in Italy. *Foods*, 13(1). <https://doi.org/10.3390/foods13010138>
- Rusdianto, A. S., Nurhardiningsih, T. O., & Wiyono, A. E. (2023). Production Optimization of Chlorophyll Herbs Spice Powder from Tapak Liman (*Elephantopus scaber*) Leaves with Response Surface Method. *International Journal on Food, Agriculture and Natural Resources*, 4(4), 18–26. <https://doi.org/10.46676/ij-fanres.v4i4.224>
- Sakinah, F. (2021). Peningkatan Kualitas Biopolimer (PlA) Nanokomposit Modifikasi Filler Bentonit Dan Kitosan Anti-Bakteri. *Jurnal Sains Dan Teknologi Reaksi*, 18(01). <https://doi.org/10.30811/jstr.v18i01.2235>
- Wang, Q., Chen, W., Zhu, W., McClements, D. J., Liu, X., & Liu, F. (2022). A review of multilayer and composite films and coatings for active biodegradable packaging. *Npj Science of Food*, 6(1). <https://doi.org/10.1038/s41538-022-00132-8>
- Wulandari, L. A., Siswoyo, T. A., & Hariyono, K. (2019). Pengaruh Konsentrasi dan Waktu Aplikasi CaCl<sub>2</sub> terhadap Fisikokimia Buah Tomat (*Lycopersicon esculentum* Mill.) The Effect of Concentration and Application Time of CaCl<sub>2</sub>

- on Physicochemical of Tomato Fruits (*Lycopersicum esculentum* Mill.). *Bioindustri*, 02(01), 261–273.
- Xian, X., Wang, X., Zhu, Y., Guo, Y., & Tian, Y. (2018). Effects of MCC Content on the Structure and Performance of PLA/MCC Biocomposites. *Journal of Polymers and the Environment*, 26(8), 3484–3492. <https://doi.org/10.1007/s10924-018-1226-3>
- Yuniarto, K., Lastriyanto, A., & Kurniawan, H. (2020). Permeabilitas Oksigen Kemasan Aktif Polylactic Acid - Butylated Hydroxytoluene Oxygenpermeability. *Jurnal Teknologi Pertanian*, 21(2), 136–143.
- Zdunek, A., Koziół, A., Cybulska, J., Lekka, M., & Pieczywek, P. M. (2016). The stiffening of the cell walls observed during physiological softening of pears. *Planta*, 243(2), 519–529. <https://doi.org/10.1007/s00425-015-2423-0>
- Zhang, Z., & Yin, Z. (2023). The Aroma Volatile in 'Nanguo' Pear: A Review. *Horticulturae*, 9(3). <https://doi.org/10.3390/horticulturae9030339>
- Zulaikhah, S. R., & Fitria, R. (2020). Pengaruh Penambahan Sari Buah Pisang Ambon (*Musa paradisiaca*) sebagai Perisa Alami terhadap Warna, Total Padatan Terlarut dan Sifat Organoleptik Yogurt. *Jurnal Sain Peternakan Indonesia*, 15(4), 434–440. <https://doi.org/10.31186/jspi.id.15.4.434-460>.

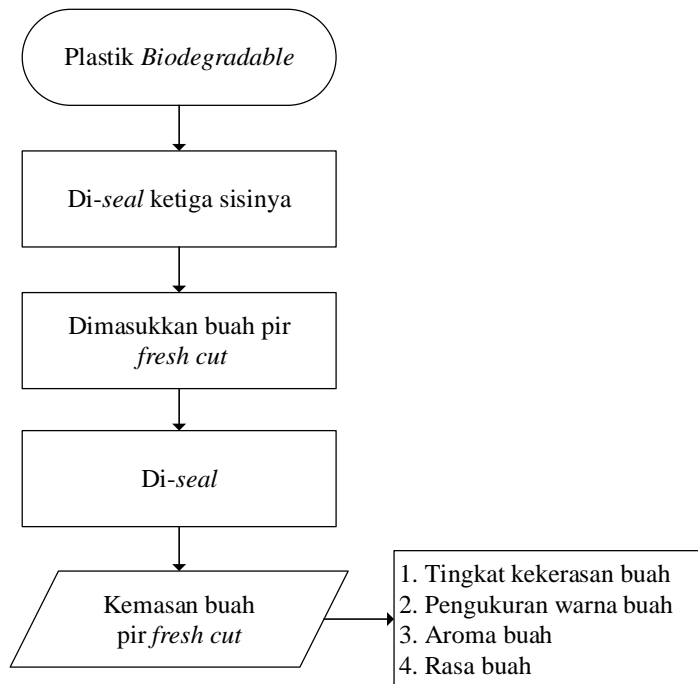
## LAMPIRAN

### Lampiran 1. Diagram Alir Prosedur Penelitian

#### 1. Pembuatan Plastik Biodegradable



## 2. Pengaplikasian Kemasan Plastik *Biodegradable*



## Lampiran 2. Hasil Analisis *Univariate Analysis of Variance* Tingkat Kekerasan Buah Pir *Fresh cut*

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons W

1: TK 3.90

	JK	PJ	TK	var	var	var	var
1	1	1	3.90				
2	1	1	3.80				
3	1	2	3.30				
4	1	2	3.40				
5	1	3	2.90				
6	1	3	3.00				
7	2	1	4.00				
8	2	1	3.90				
9	2	2	3.80				
10	2	2	3.50				
11	2	3	3.70				
12	2	3	3.40				
13	.	.	.				

### ➔ Univariate Analysis of Variance

#### Tests of Between-Subjects Effects

Dependent Variable: Tingkat Kekerasan Buah

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	152.550 <sup>a</sup>	6	25.425	1386.818	.000
JK	.333	1	.333	18.182	.005
PJ	.860	2	.430	23.455	.001
JK * PJ	.127	2	.063	3.455	.100
Error	.110	6	.018		
Total	152.660	12			

a. R Squared = .999 (Adjusted R Squared = .999)

### Homogeneous Subsets

#### Tingkat Kekerasan Buah

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset		
		1	2	3
14 jam	4	3.2500		
7 jam	4		3.5000	
0 jam	4			3.9000
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .018.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

### Lampiran 3. Hasil Analisis *Univariate Analysis of Variance* Nilai Kecerahan (L\*) Buah Pir Fresh cut

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons W

1 : L 69.50

	JK	PJ	L	var	var	var	var
1	1	1	69.50				
2	1	1	69.30				
3	1	2	55.70				
4	1	2	55.80				
5	1	3	52.20				
6	1	3	51.20				
7	2	1	69.40				
8	2	1	69.30				
9	2	2	68.90				
10	2	2	67.50				
11	2	3	66.90				
12	2	3	65.20				
13	.	.	.				

## Univariate Analysis of Variance

### Tests of Between-Subjects Effects

Dependent Variable: Nilai Kecerahan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	48841.155 <sup>a</sup>	6	8140.193	16528.310	.000
JK	238.521	1	238.521	484.306	.000
PJ	232.827	2	116.413	236.372	.000
JK * PJ	122.407	2	61.203	124.271	.000
Error	2.955	6	.493		
Total	48844.110	12			

a. R Squared = 1.000 (Adjusted R Squared = 1.000)

### Homogeneous Subsets

#### Nilai Kecerahan

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset		
		1	2	3
14 jam	4	58.8750		
7 jam	4		61.9750	
0 jam	4			69.3750
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .493.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

### Homogeneous Subsets

#### Nilai Kecerahan

Duncan<sup>a</sup>

JenisKemasan_PerlakuanJam	N	Subset for alpha = 0.05			
		1	2	3	4
tk 14jam	2	51.7000			
tk 7jam	2		55.7500		
pb 14 jam	2			66.0500	
pb 7 jam	2				68.2000
pb 0 jam	2				69.3500
tanpa kemasan 0 jam	2				69.4000
Sig.		1.000	1.000	1.000	.150

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.



#### Lampiran 4. Hasil Analisis *Univariate Analysis of Variance* Nilai Kemerahan (a\*) Buah Pir *Fresh cut*

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Win

27 : JK

	JK	PJ	a	var	var	var	var
1	1	1	.20				
2	1	1	.80				
3	1	2	3.60				
4	1	2	2.60				
5	1	3	5.40				
6	1	3	4.50				
7	2	1	.40				
8	2	1	.70				
9	2	2	2.00				
10	2	2	1.80				
11	2	3	2.60				
12	2	3	2.50				
13	.	.	.				

#### → Univariate Analysis of Variance

##### Tests of Between-Subjects Effects

Dependent Variable: Nilai Kemerahan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	89.555 <sup>a</sup>	6	14.926	77.537	.000
JK	4.201	1	4.201	21.823	.003
PJ	21.152	2	10.576	54.939	.000
JK * PJ	3.002	2	1.501	7.797	.021
Error	1.155	6	.193		
Total	90.710	12			

a. R Squared = .987 (Adjusted R Squared = .975)

#### Homogeneous Subsets

##### Nilai Kemerahan

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset		
		1	2	3
0 jam	4	.5250		
7 jam	4		2.5000	
14 jam	4			3.7500
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .193.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

#### Homogeneous Subsets

##### Nilai Kemerahan

Duncan<sup>a</sup>

JenisKemasan_PerlakuanJam	N	Subset for alpha = 0.05			
		1	2	3	4
tanpa kemasan 0 jam	2	.5000			
pb 0 jam	2	.5500			
pb 7 jam	2		1.9000		
pb 14 jam	2		2.5500	2.5500	
tk 7jam	2			3.1000	
tk 14jam	2				4.9500
Sig.		.913	.189	.257	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

## Lampiran 5. Hasil Analisis *Univariate Analysis of Variance* Nilai Kekuningan (b\*) Buah Pir *Fresh cut*

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons W

15 : b

	JK	PJ	b	var	var	var	var
1	1	1	11.20				
2	1	1	10.70				
3	1	2	18.30				
4	1	2	18.60				
5	1	3	19.90				
6	1	3	19.70				
7	2	1	10.90				
8	2	1	10.70				
9	2	2	15.80				
10	2	2	16.00				
11	2	3	16.10				
12	2	3	16.30				
13	.	.	.				

### Tests of Between-Subjects Effects

Dependent Variable: Nilai Kekuningan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	2968.470 <sup>a</sup>	6	494.745	11873.880	.000
JK	13.230	1	13.230	317.520	.000
PJ	121.515	2	60.757	1458.180	.000
JK * PJ	6.255	2	3.127	75.060	.000
Error	.250	6	.042		
Total	2968.720	12			

a. R Squared = 1.000 (Adjusted R Squared = 1.000)

### Homogeneous Subsets

#### Nilai Kekuningan

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset		
		1	2	3
0 jam	4	10.8750		
7 jam	4		17.1750	
14 jam	4			18.0000
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.  
Based on observed means.  
The error term is Mean Square(Error) = .042.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

### Homogeneous Subsets

#### Nilai Kekuningan

Duncan<sup>a</sup>

JenisKemasan_PerlakuanJam	N	Subset for alpha = 0.05			
		1	2	3	4
pb 0 jam	2	10.8000			
tanpa kemasan 0 jam	2	10.9500			
pb 7 jam	2		15.9000		
pb 14 jam	2		16.2000		
tk 7jam	2			18.4500	
tk 14jam	2				18.8000
Sig.		.490	.192	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

## Lampiran 6. Hasil Analisis *Univariate Analysis of Variance* Uji Organoleptik Parameter Warna Pada Buah Pir Fresh cut

Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons W

12 : warna 2.98

	JK	PJ	warna	var	var	var	var
1	1	1	4.67				
2	1	1	4.53				
3	1	2	2.80				
4	1	2	2.20				
5	1	3	2.27				
6	1	3	2.30				
7	2	1	4.53				
8	2	1	4.07				
9	2	2	3.50				
10	2	2	3.40				
11	2	3	3.33				
12	2	3	2.98				
13							

### → Univariate Analysis of Variance

#### Tests of Between-Subjects Effects

Dependent Variable: Tingkat kesukaan warna

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	145.956 <sup>a</sup>	6	24.326	402.858	.000
JK	.770	1	.770	12.754	.012
PJ	6.978	2	3.489	57.781	.000
JK * PJ	.979	2	.490	8.109	.020
Error	.362	6	.060		
Total	146.318	12			

a. R Squared = .998 (Adjusted R Squared = .995)

### Post Hoc Tests

#### Perlakuan Jam

#### Homogeneous Subsets

##### Tingkat kesukaan warna

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset	
		1	2
14 jam	4	2.7200	
7 jam	4	2.9750	
0 jam	4		4.4500
Sig.		.193	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .060.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

→ **Oneway**

[DataSet1]

**Descriptives**

Tingkat kesukaan warna

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
tanpa kemasan 0 jam	2	4.6000	.09899	.07000	3.7106	5.4894	4.53	4.67
tk 7jam	2	2.5000	.42426	.30000	-1.3119	6.3119	2.20	2.80
tk 14jam	2	2.2850	.02121	.01500	2.0944	2.4756	2.27	2.30
pb 0 jam	2	4.3000	.32527	.23000	1.3776	7.2224	4.07	4.53
pb 7 jam	2	3.4500	.07071	.05000	2.8147	4.0853	3.40	3.50
pb 14 jam	2	3.1550	.24749	.17500	.9314	5.3786	2.98	3.33
Total	12	3.3817	.90903	.26242	2.8041	3.9592	2.20	4.67

**ANOVA**

Tingkat kesukaan warna

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.727	5	1.745	28.907	.000
Within Groups	.362	6	.060		
Total	9.090	11			

## Homogeneous Subsets

**Tingkat kesukaan warna**

Duncan<sup>a</sup>

JenisKemasan_PerlakuanJam	N	Subset for alpha = 0.05		
		1	2	3
tk 14jam	2	2.2850		
tk 7jam	2	2.5000		
pb 14 jam	2		3.1550	
pb 7 jam	2		3.4500	
pb 0 jam	2			4.3000
tanpa kemasan 0 jam	2			4.6000
Sig.		.415	.275	.268

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

## Lampiran 7. Hasil Analisis *Univariate Analysis of Variance* Uji Organoleptik Parameter Aroma Pada Buah Pir *Fresh cut*

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Wi

12 : Aroma 3.27

	JK	PJ	Aroma	var	var	var	var
1	1	1	3.87				
2	1	1	3.47				
3	1	2	3.13				
4	1	2	2.53				
5	1	3	2.87				
6	1	3	2.67				
7	2	1	4.20				
8	2	1	3.93				
9	2	2	3.73				
10	2	2	3.33				
11	2	3	3.13				
12	2	3	3.27				
13	.	.	.				

### → Univariate Analysis of Variance

#### Tests of Between-Subjects Effects

Dependent Variable: Tingkat kesukaan aroma

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	136.752 <sup>a</sup>	6	22.792	336.619	.000
JK	.775	1	.775	11.449	.015
PJ	1.719	2	.860	12.696	.007
JK * PJ	.056	2	.028	.411	.680
Error	.406	6	.068		
Total	137.158	12			

a. R Squared = .997 (Adjusted R Squared = .994)

#### Homogeneous Subsets

##### Tingkat kesukaan aroma

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset	
		1	2
14 jam	4	2.9850	
7 jam	4	3.1800	
0 jam	4		3.8675
Sig.		.330	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .068.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

## Lampiran 8. Hasil Analisis *Univariate Analysis of Variance* Uji Organoleptik Parameter Tekstur Pada Buah Pir *Fresh cut*

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Win

12 : tekstur 3.73

	JK	PJ	tekstur	var	var	var	var
1	1	1	4.40				
2	1	1	4.50				
3	1	2	3.50				
4	1	2	3.27				
5	1	3	3.10				
6	1	3	2.78				
7	2	1	4.60				
8	2	1	4.47				
9	2	2	3.90				
10	2	2	3.90				
11	2	3	3.60				
12	2	3	3.73				
13	.	.	.				

### ➔ Univariate Analysis of Variance

#### Tests of Between-Subjects Effects

Dependent Variable: Tingkat kesukaan tekstur

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	178.226 <sup>a</sup>	6	29.704	1790.312	.000
JK	.585	1	.585	35.271	.001
PJ	3.006	2	1.503	90.576	.000
JK * PJ	.213	2	.106	6.415	.032
Error	.100	6	.017		
Total	178.325	12			

a. R Squared = .999 (Adjusted R Squared = .999)

#### Homogeneous Subsets

##### Tingkat kesukaan tekstur

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset		
		1	2	3
14 jam	4	3.3025		
7 jam	4		3.6425	
0 jam	4			4.4925
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .017.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.

## → Oneway

[DataSet1]

### Descriptives

Tingkat kesukaan tekstur

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
tanpa kemasan 0 jam	2	4.4500	.07071	.05000	3.8147	5.0853	4.40	4.50
tk 7jam	2	3.3850	.16263	.11500	1.9238	4.8462	3.27	3.50
tk 14jam	2	2.9400	.22627	.16000	.9070	4.9730	2.78	3.10
pb 0 jam	2	4.5350	.09192	.06500	3.7091	5.3609	4.47	4.60
pb 7 jam	2	3.9000	.00000	.00000	3.9000	3.9000	3.90	3.90
pb 14 jam	2	3.6650	.09192	.06500	2.8391	4.4909	3.60	3.73
Total	12	3.8125	.59568	.17196	3.4340	4.1910	2.78	4.60

### ANOVA

Tingkat kesukaan tekstur

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3.804	5	.761	45.850	.000
Within Groups	.100	6	.017		
Total	3.903	11			

## Homogeneous Subsets

Tingkat kesukaan tekstur

Duncan<sup>a</sup>

JenisKemasan_PerlakuanJam	N	Subset for alpha = 0.05			
		1	2	3	4
tk 14jam	2	2.9400			
tk 7jam	2		3.3850		
pb 14 jam	2		3.6650	3.6650	
pb 7 jam	2			3.9000	
tanpa kemasan 0 jam	2				4.4500
pb 0 jam	2				4.5350
Sig.		1.000	.073	.118	.534

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

## Lampiran 9. Hasil Analisis *Univariate Analysis of Variance* Uji Organoleptik Parameter Rasa Pada Buah Pir *Fresh cut*

\*Data Penelitian Indah 2024.sav [DataSet0] - IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Direct Marketing Graphs Utilities Add-ons Win

	JK	PJ	rasa	var	var	var	var
1	1	1	3.80				
2	1	1	3.87				
3	1	2	3.80				
4	1	2	3.47				
5	1	3	3.00				
6	1	3	3.27				
7	2	1	4.47				
8	2	1	4.47				
9	2	2	3.80				
10	2	2	3.67				
11	2	3	3.40				
12	2	3	3.33				
13	.	.	.				

### ➔ Univariate Analysis of Variance

#### Tests of Between-Subjects Effects

Dependent Variable: Tingkat kesukaan rasa

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	166.006 <sup>a</sup>	6	27.668	1592.384	.000
JK	.310	1	.310	17.865	.006
PJ	1.630	2	.815	46.898	.000
JK * PJ	.156	2	.078	4.481	.064
Error	.104	6	.017		
Total	166.110	12			

a. R Squared = .999 (Adjusted R Squared = .999)

### Homogeneous Subsets

#### Tingkat kesukaan rasa

Duncan<sup>a,b</sup>

Perlakuan Jam	N	Subset		
		1	2	3
14 jam	4	3.2500		
7 jam	4		3.6850	
0 jam	4			4.1525
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .017.

a. Uses Harmonic Mean Sample Size = 4.000.

b. Alpha = .05.



## Lampiran 10. Dokumentasi Penelitian



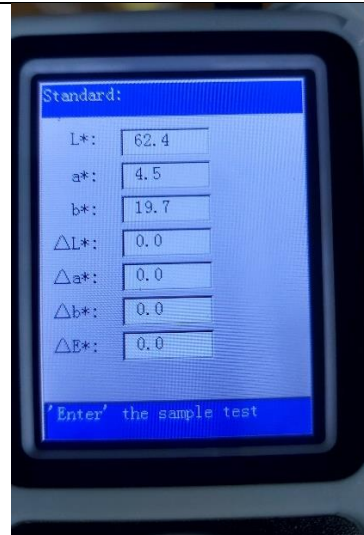
### Pengujian Ketebalan, Kuat tarik, Elongasi Plastik *Biodegradable*

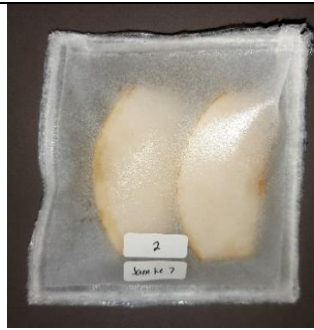


### Pengujian Tingkat Kekerasan Buah



### Pengukuran Warna Buah Pir *Fresh Cut* dengan *Colorimeter*



**Pengujian Organoleptik Buah Pir *Fresh Cut***

## ***CURRICULUM VITAE***

### **A. Data Pribadi**

1. Nama : Dwiyuliani Indah Lestari
2. Tempat, tgl. Lahir : Makassar, 6 Juli 2002
3. Alamat : Jl. Ruhui Rahayu No.10, Balikpapan
4. Kewarganegaraan : Warga Negara Indonesia

### **B. Riwayat Pendidikan**

1. Tamat SD tahun 2014 di SDN 001 Balikpapan
2. Tamat SMP tahun 2017 di SMPN 2 Balikpapan
3. Tamat SMA tahun 2020 di SMAN 5 Balikpapan

### **C. Pekerjaan dan Riwayat Pekerjaan**

- Jenis Pekerjaan : Mahasiswa
- NIP atau Identitas lain (NIK) : 7371114607020008
- Pangkat/jabatan : -