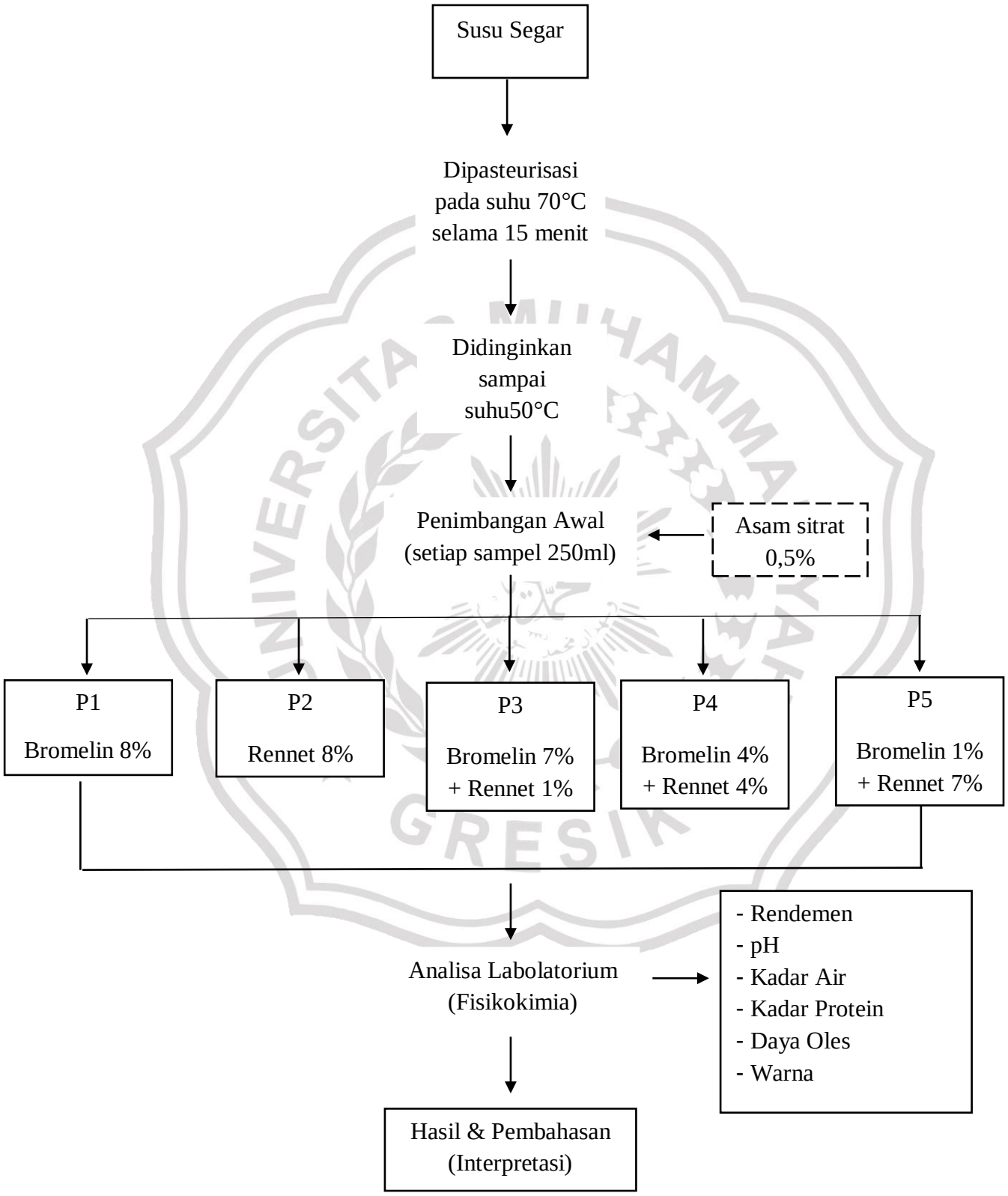
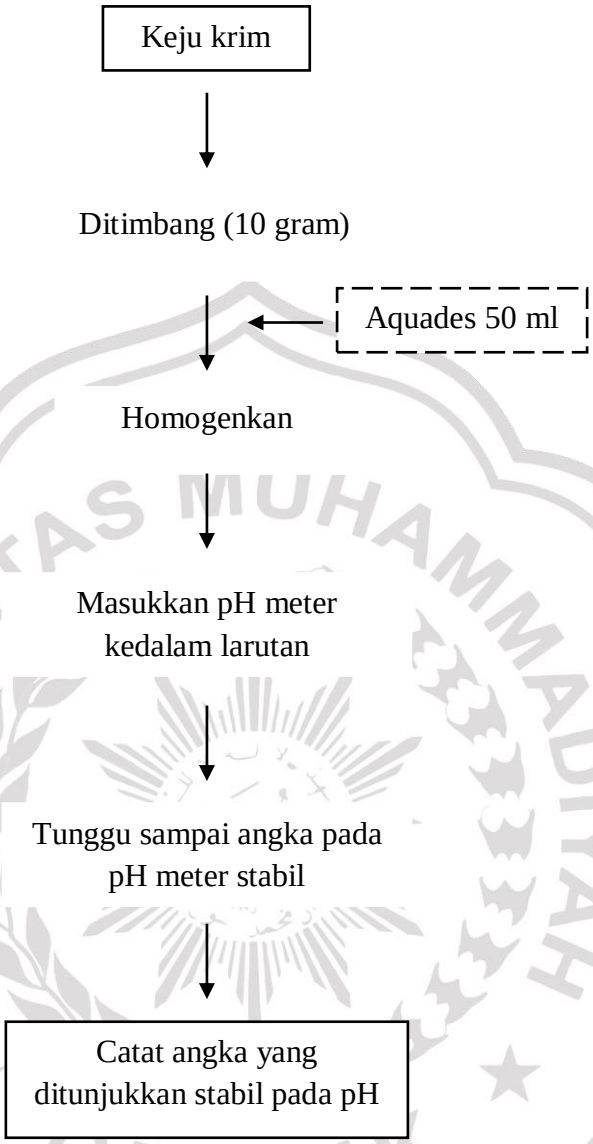
LAMPIRAN

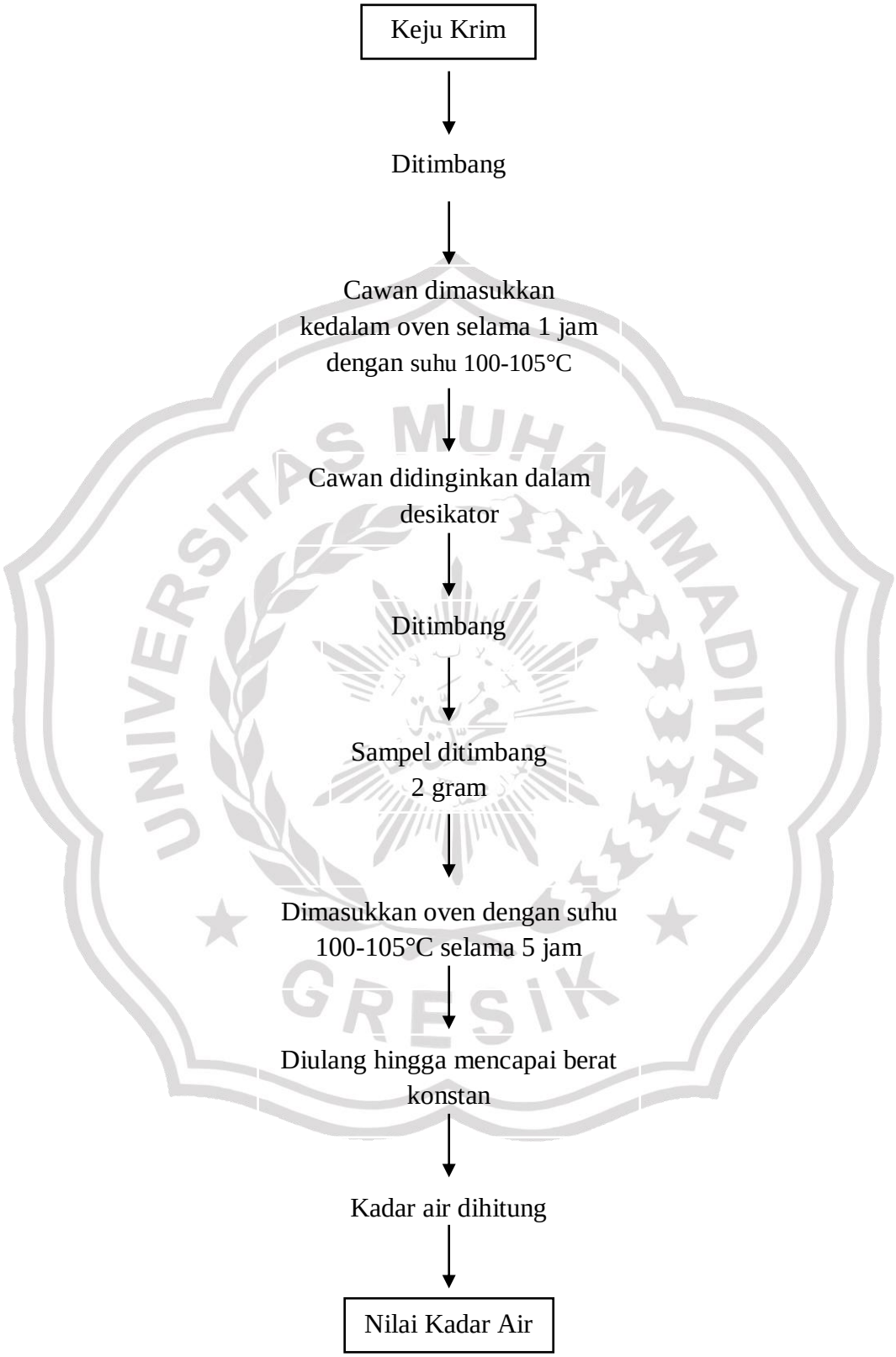
Lampiran 1. Diagram Alir Preparasi Sampel



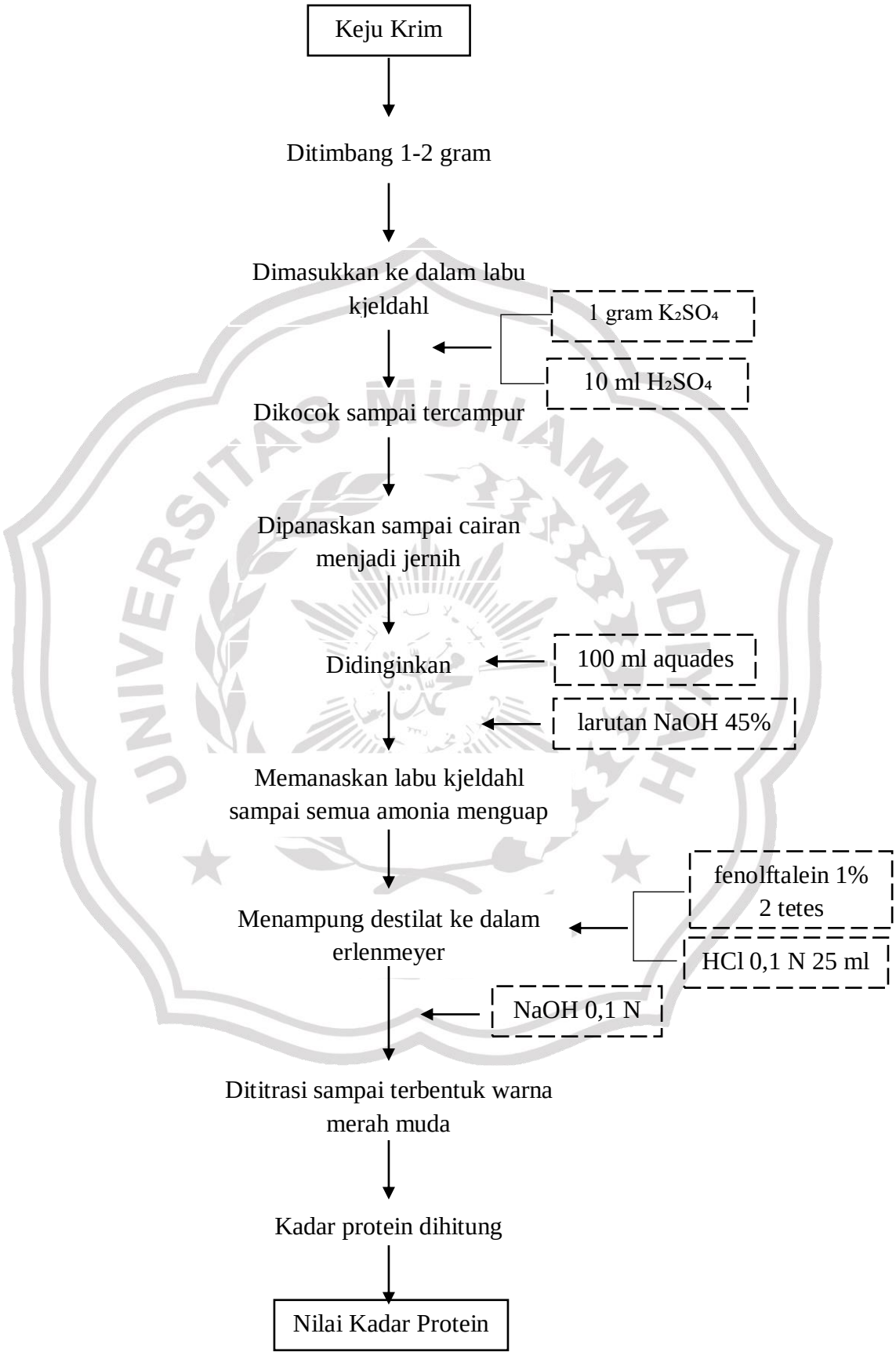
Lampiran 2. Diagram Alir Pengukuran pH



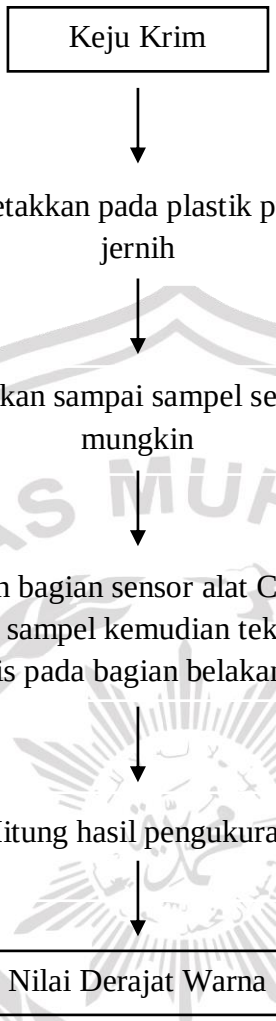
Lampiran 3. Diagram Alir Pengujian Kadar Air



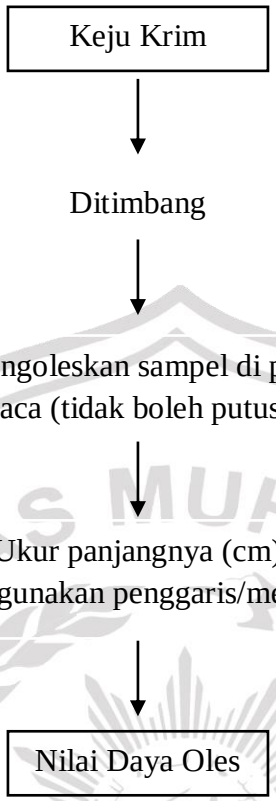
Lampiran 4. Diagram Alir Pengujian Kadar Protein



Lampiran 5. Diagram Alir Pengukuran Derajat Warna



Lampiran 6. Diagram Alir Pengukuran Daya Oles



Lampiran 7. Data Rendemen

Perlakuan	Ulangan		
	1	2	3
P1	13.13%	11.65%	10.20%
P2	11.20%	11.66%	12.52%
P3	12.45%	8.69%	9.16%
P4	12.32%	9.98%	11.13%
P5	8.00%	8.15%	9.50%

Keterangan : P1: 300 ml susu + 8% enzim bromelin; P2: 300 ml susu + 8% enzim rennet; P3: 300 ml susu + 7% enzim bromelin + 1% enzim rennet; P4: 300 ml susu + 4% enzim bromelin + 1% enzim rennet; P5: 300 ml susu + 1% enzim bromelin + 7% enzim rennet

Lampiran 8. Data Uji pH

Perlakuan	Ulangan		
	1	2	3
P1	5.81	5.83	5.90
P2	5.81	5.75	5.83
P3	5.80	5.83	5.88
P4	5.81	5.84	5.83
P5	5.78	5.80	5.83

Keterangan : P1: 300 ml susu + 8% enzim bromelin; P2: 300 ml susu + 8% enzim rennet; P3: 300 ml susu + 7% enzim bromelin + 1% enzim rennet; P4: 300 ml susu + 4% enzim bromelin + 1% enzim rennet; P5: 300 ml susu + 1% enzim bromelin + 7% enzim rennet

Lampiran 9. Data Uji Kadar Air

Perlakuan	Ulangan		
	1	2	3
P1	56%	50%	56.5%
P2	56%	57%	57.5%
P3	59.5%	57.5%	59%
P4	58%	51%	57.5%
P5	57.5%	55.5%	60.5%

Keterangan : P1: 300 ml susu + 8% enzim bromelin; P2: 300 ml susu + 8% enzim rennet; P3: 300 ml susu + 7% enzim bromelin + 1% enzim rennet; P4: 300 ml susu + 4% enzim bromelin + 1% enzim rennet; P5: 300 ml susu + 1% enzim bromelin + 7% enzim rennet

Lampiran 10. Data Uji Kadar Protein

Perlakuan	Ulangan		
	1	2	3
P1	4.39%	4.37%	4.38%
P2	4.94%	4.94%	4.93%
P3	6.68%	6.75%	6.74%
P4	5.61%	5.64%	5.60%
P5	5.50%	5.51%	5.50%

Keterangan : P1: 300 ml susu + 8% enzim bromelin; P2: 300 ml susu + 8% enzim rennet; P3: 300 ml susu + 7% enzim bromelin + 1% enzim rennet; P4: 300 ml susu + 4% enzim bromelin + 1% enzim rennet; P5: 300 ml susu + 1% enzim bromelin + 7% enzim rennet

Lampiran 11. Data Uji Derajat Warna

Perlakuan	Ulangan		
	1	2	3
P1	79.93	78.06	79.21
P2	78.72	78.65	79.69
P3	77.4	77.04	76.18
P4	79.12	76.6	78.9
P5	77.25	79.07	78.55

Keterangan : P1: 300 ml susu + 8% enzim bromelin; P2: 300 ml susu + 8% enzim rennet; P3: 300 ml susu + 7% enzim bromelin + 1% enzim rennet; P4: 300 ml susu + 4% enzim bromelin + 1% enzim rennet; P5: 300 ml susu + 1% enzim bromelin + 7% enzim rennet

Lampiran 12. Data Uji Daya Oles

Perlakuan	ULANGAN		
	1	2	3
P1	2	1	2
P2	2.5	4.5	4
P3	3	3.5	2.5
P4	4	3	3.5
P5	3.3	3.5	2.9

Keterangan : P1: 300 ml susu + 8% enzim bromelin; P2: 300 ml susu + 8% enzim rennet; P3: 300 ml susu + 7% enzim bromelin + 1% enzim rennet; P4: 300 ml susu + 4% enzim bromelin + 1% enzim rennet; P5: 300 ml susu + 1% enzim bromelin + 7% enzim rennet

Lampiran 13. Hasil rendemen (SPSS)

Descriptives

Rendemen

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P1	3	11.6600	1.46503	.84583	8.0207	15.2993	10.20	13.13
P2	3	11.7933	.67002	.38684	10.1289	13.4578	11.20	12.52
P3	3	10.1000	2.04868	1.18281	5.0108	15.1892	8.69	12.45
P4	3	11.1433	1.17006	.67553	8.2368	14.0499	9.98	12.32
P5	3	8.5500	.82614	.47697	6.4978	10.6022	8.00	9.50
Total	15	10.6493	1.68050	.43390	9.7187	11.5800	8.00	13.13

ANOVA

Rendemen

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	21.850	4	5.462	3.088	.067
Within Groups	17.688	10	1.769		
Total	39.537	14			

Post Hoc Tests

Rendemen

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05	
		1	2
P5	3	8.5500	
P3	3	10.1000	10.1000
P4	3		11.1433
P1	3		11.6600
P2	3		11.7933
Sig.		.184	.176

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 14. Hasil Uji pH (SPSS)

Descriptives

pH

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P1	3	5.8467	.04726	.02728	5.7293	5.9641	5.81	5.90
P2	3	5.7967	.04163	.02404	5.6932	5.9001	5.75	5.83
P3	3	5.8367	.04041	.02333	5.7363	5.9371	5.80	5.88
P4	3	5.8267	.01528	.00882	5.7887	5.8646	5.81	5.84
P5	3	5.8033	.02517	.01453	5.7408	5.8658	5.78	5.83
Total	15	5.8220	.03629	.00937	5.8019	5.8421	5.75	5.90

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.006	4	.001	1.064	.423
Within Groups	.013	10	.001		
Total	.018	14			

Post Hoc Tests

pH

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
P2	3	5.7967
P5	3	5.8033
P4	3	5.8267
P3	3	5.8367
P1	3	5.8467
Sig.		.148

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 15. Hasil Uji Kadar Air (SPSS)

Descriptives

Kadar_Air

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P1	3	54.1667	3.61709	2.08833	45.1813	63.1520	50.00	56.50
P2	3	56.8333	.76376	.44096	54.9360	58.7306	56.00	57.50
P3	3	58.6667	1.04083	.60093	56.0811	61.2522	57.50	59.50
P4	3	55.5000	3.90512	2.25462	45.7991	65.2009	51.00	58.00
P5	3	57.8333	2.51661	1.45297	51.5817	64.0849	55.50	60.50
Total	15	56.6000	2.82337	.72899	55.0365	58.1635	50.00	60.50

ANOVA

Kadar_Air

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	38.933	4	9.733	1.339	.321
Within Groups	72.667	10	7.267		
Total	111.600	14			

Post Hoc Tests

Kadar_Air

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
P1	3	54.1667
P4	3	55.5000
P2	3	56.8333
P5	3	57.8333
P3	3	58.6667
Sig.		.090

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 16. Hasil Uji Kadar Protein (SPSS)

Descriptives

kadar_protein

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P1	3	4.3800	.01000	.00577	4.3552	4.4048	4.37	4.39
P2	3	4.9367	.00577	.00333	4.9223	4.9510	4.93	4.94
P3	3	6.7233	.03786	.02186	6.6293	6.8174	6.68	6.75
P4	3	5.6167	.02082	.01202	5.5650	5.6684	5.60	5.64
P5	3	5.5033	.00577	.00333	5.4890	5.5177	5.50	5.51
Total	15	5.4320	.80978	.20908	4.9836	5.8804	4.37	6.75

ANOVA

kadar_protein

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9.176	4	2.294	5641.213	.000
Within Groups	.004	10	.000		
Total	9.180	14			

Post Hoc Tests

kadar_protein

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
P1	3	4.3800				
P2	3		4.9367			
P5	3			5.5033		
P4	3				5.6167	
P3	3					6.7233
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 17. Hasil Uji Derajat Warna (SPSS)

Descriptives

Derajat_Warna

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P1	3	79.0667	.94320	.54456	76.7236	81.4097	78.06	79.93
P2	3	79.0200	.58129	.33561	77.5760	80.4640	78.65	79.69
P3	3	76.8733	.62684	.36191	75.3162	78.4305	76.18	77.40
P4	3	78.2067	1.39576	.80584	74.7394	81.6739	76.60	79.12
P5	3	78.2900	.93744	.54123	75.9613	80.6187	77.25	79.07
Total	15	78.2913	1.14470	.29556	77.6574	78.9252	76.18	79.93

ANOVA

Derajat_Warna

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	9.450	4	2.362	2.656	.096
Within Groups	8.895	10	.889		
Total	18.345	14			

Post Hoc Tests

Derajat_Warna

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05	
		1	2
P3	3	76.8733	
P4	3	78.2067	78.2067
P5	3	78.2900	78.2900
P2	3		79.0200
P1	3		79.0667
Sig.		.109	.322

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 18. Hasil Uji Daya Oles (SPSS)

Descriptives

Daya_Oles

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P1	3	1.6667	.57735	.33333	.2324	3.1009	1.00	2.00
P2	3	3.6667	1.04083	.60093	1.0811	6.2522	2.50	4.50
P3	3	3.0000	.50000	.28868	1.7579	4.2421	2.50	3.50
P4	3	3.5000	.50000	.28868	2.2579	4.7421	3.00	4.00
P5	3	3.2333	.30551	.17638	2.4744	3.9922	2.90	3.50
Total	15	3.0133	.91015	.23500	2.5093	3.5174	1.00	4.50

ANOVA

Daya_Oles

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.577	4	1.894	4.712	.021
Within Groups	4.020	10	.402		
Total	11.597	14			

Post Hoc Tests

Daya_Oles

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05	
		1	2
P1	3	1.6667	
P3	3		3.0000
P5	3		3.2333
P4	3		3.5000
P2	3		3.6667
Sig.		1.000	.257

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 19. Uji Efektifitas / Penentuan Perlakuan Terbaik

Parameter	Bobot	Nilai Bobot	P1			P2			P3			P4			P5		
			NA	I	NH	NA	I	NH	NA	I	NH	NA	I	NH	NA	I	NH
Protein	9	0.21	4.38	0.00	0.00	4.94	0.24	0.05	6.72	1.00	0.21	5.62	0.53	0.11	5.50	0.48	0.10
Kadar Air	8	0.19	54.17	1.00	0.19	56.83	0.41	0.08	58.67	0.00	0.00	55.50	0.70	0.13	57.83	0.19	0.03
pH	7	0.16	5.85	1.00	0.16	5.80	0.00	0.00	5.84	0.80	0.13	5.83	0.60	0.10	5.80	0.00	0.00
Daya Oles	7	0.16	1.67	0.00	0.00	3.67	1.00	0.16	3.00	0.67	0.11	3.50	0.92	0.15	3.23	0.78	0.13
Warna	6	0.14	79.07	1.00	0.14	79.02	0.98	0.14	76.87	0.00	0.00	78.21	0.61	0.08	78.29	0.65	0.09
Rendem	6	0.14	11.66	0.96	0.13	11.79	1.00	0.14	10.10	0.48	0.07	11.14	0.80	0.11	8.55	0.00	0.00
TOTAL	43				**0.62**			**0.56**			**0.51**			**0.69**			**0.35**

Keterangan:

NA : Nilai Asli (diperoleh dari rata-rata uji)

I : Indeks (diperoleh dari perhitungan berdasarkan nilai semakin tinggi semakin baik atau semakin tinggi semakin rendah /jelek, atau sebaliknya)

NH : Nilai Hasil (diperoleh dari indeks x nilai bobot)

- Bobot diperoleh dengan menilai tingkat kepentingan uji (dengan scoring 1-9 sesuai dengan kepentingannya dari yang paling penting [nilai tertinggi] – hingga kurang penting [nilai lebih rendah dari parameter yang lebih penting])
- Karena terdapat nilai asli (NA) yang pada parameter uji pH (P5 dan P2) sehingga muncul nilai indeks yang sama
- Syarat uji efektifitas yang benar dapat dilihat pada nilai 0 dan nilai 1 yang jumlahnya sama dengan jumlah parameter uji, kecuali terdapat nilai asli yang sama pada parameter yang sama sehingga akan menghasilkan nilai indeks yang sama. Hal tersebut diperbolehkan dan dianggap hanya ada satu nilai.

Rumus:

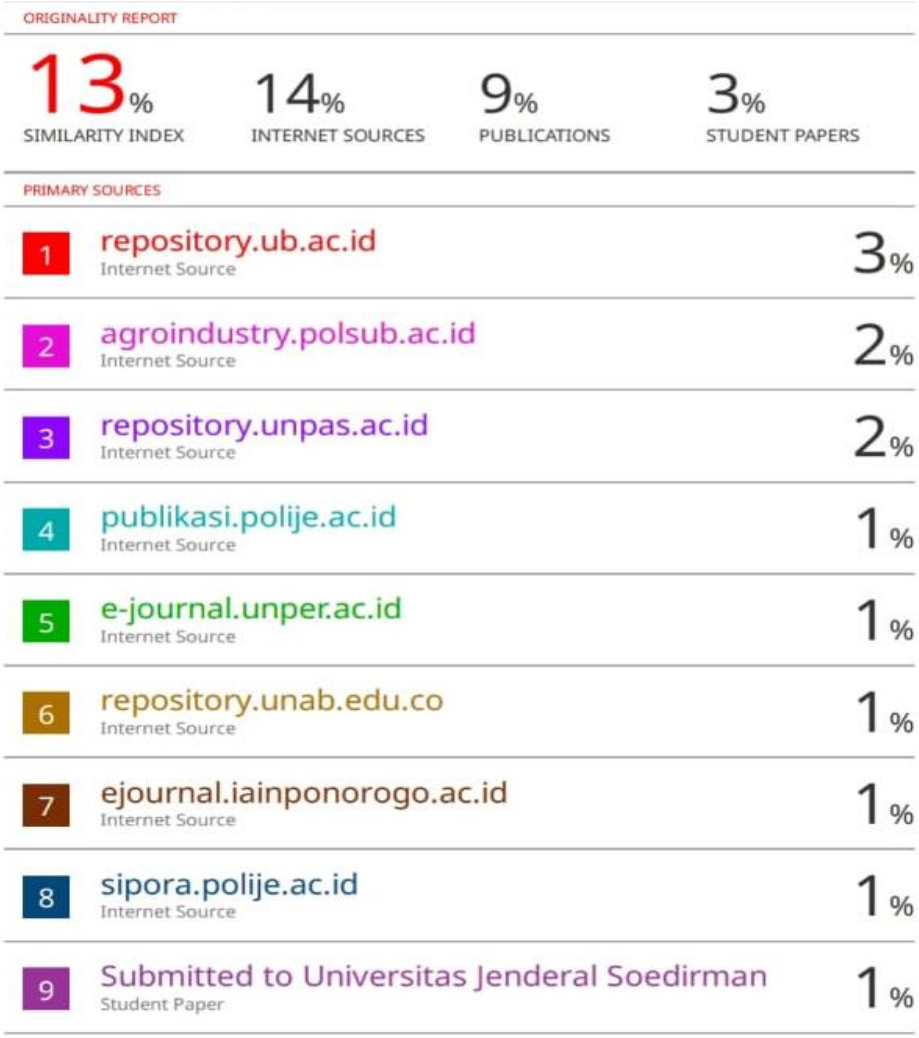
$$INDEKS\ (I) semakin\ tinggi\ semakin\ baik = \frac{NA - NR}{NT - NR}$$

$$INDEKS\ (I) semakin\ tinggi\ semakin\ jelek/rendah = \frac{NA - NT}{NR - NT}$$

NA : Nilai Asli
NR : Nilai Rendah [dari nilai asli]
NT : Nilai tinggi [dari nilai asli]

Lampiran 20. Hasil Plagiasi

PENGARUH PERBEDAAN RASIO ENZIM BROMELIN DAN ENZIM RENNET TERHADAP KARAKTERISTIK FISIKOKIMIA KEJU KRIM



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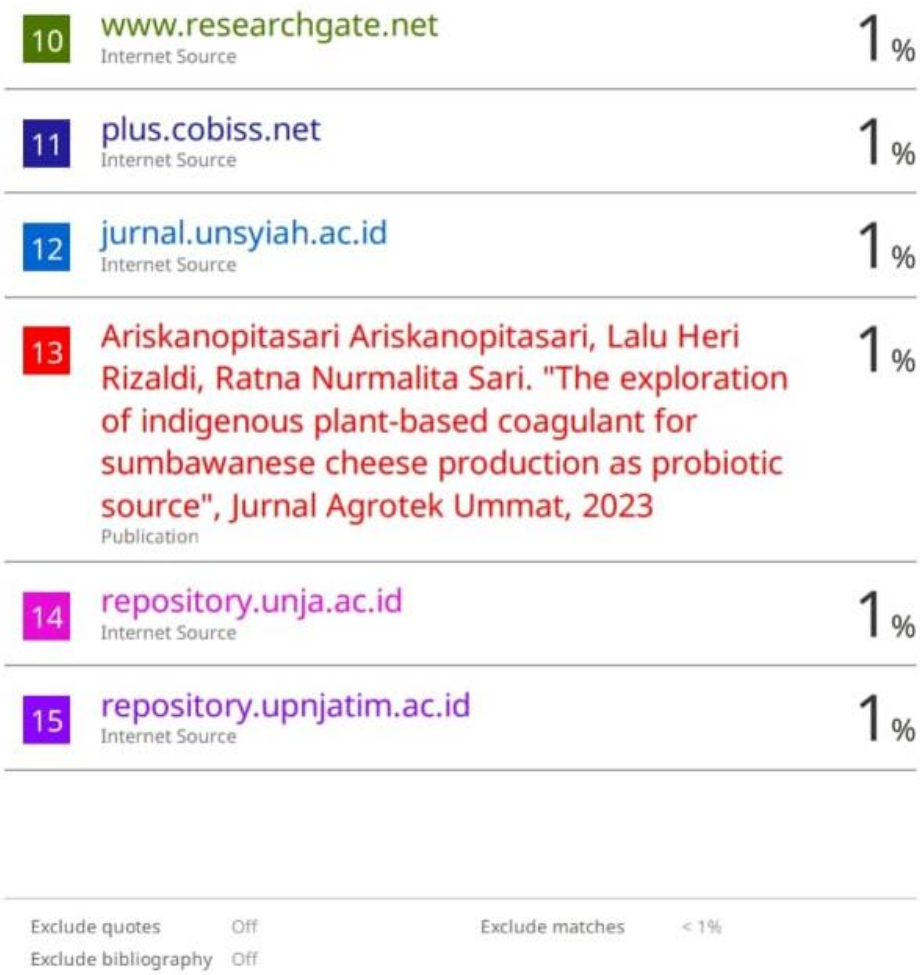

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