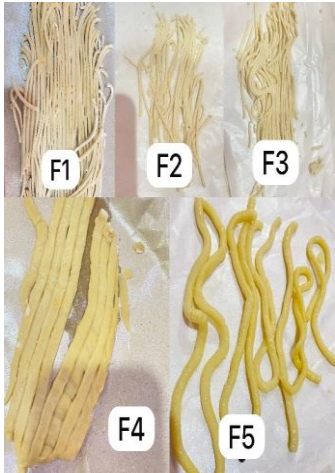
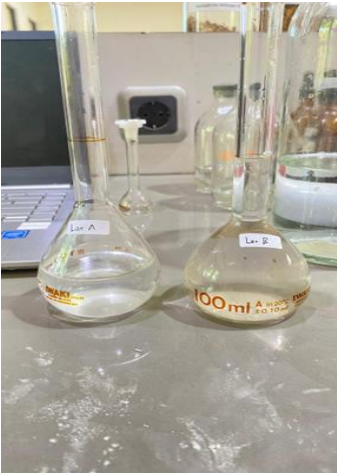
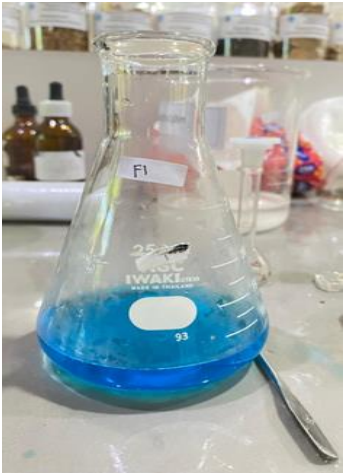
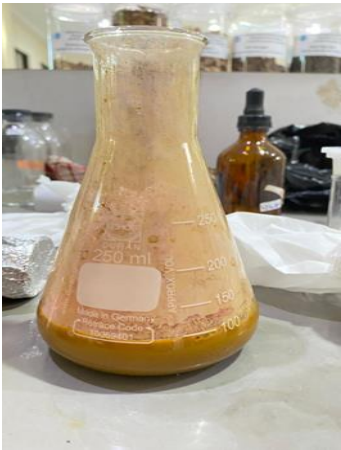
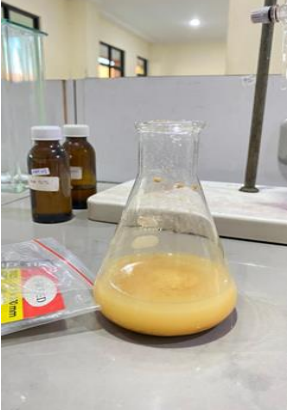
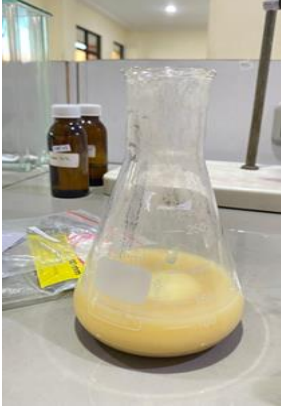
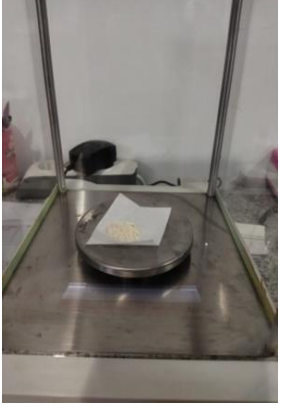
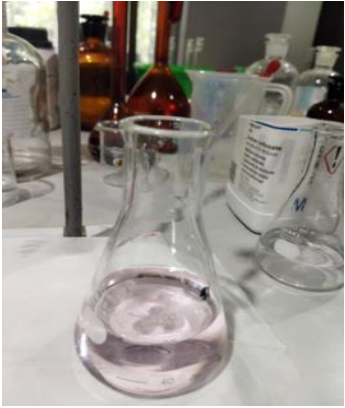


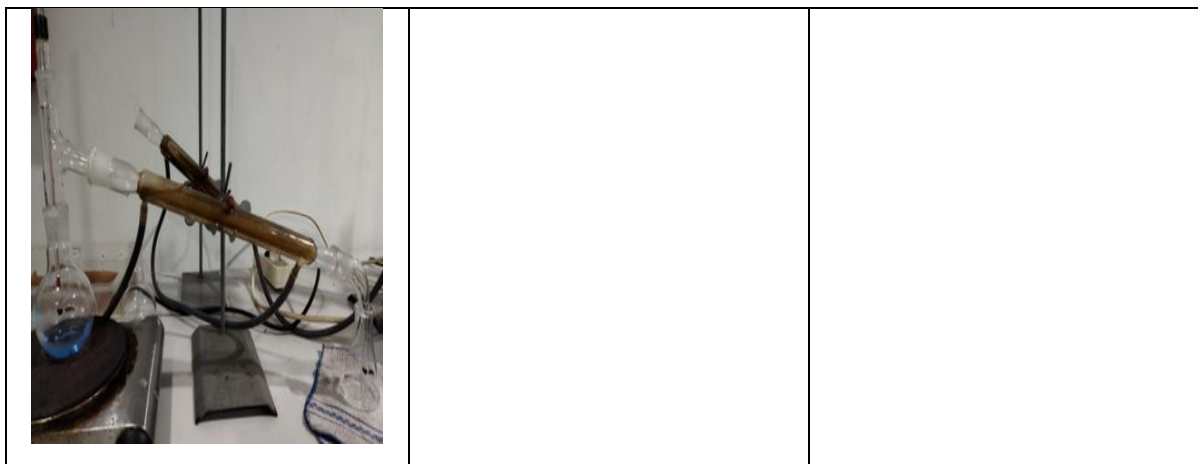
LAMPIRAN

Lampiran 1. Dokumentasi

 A laboratory flask containing a bright orange liquid, sitting on a lab bench. In the background, there are brown bottles and a plastic bag.	 A laboratory flask containing a bright orange liquid, similar to the first image, with a white label on the side.	 A close-up of an analytical balance with a small amount of white powder on its weighing pan.
 Four laboratory flasks containing a pale green liquid, arranged in a rack.	 A laboratory flask containing a blue liquid, with a label that includes the number '93'.	 A laboratory flask containing a pink liquid, with a label that includes the number '40'.
 A laboratory flask being filled with water from a tap or faucet.	 A laboratory flask containing a blue liquid, placed on a magnetic stirrer with a stir bar and a thermometer.	 Two laboratory flasks containing a pink liquid, with labels that include the numbers '40' and '41'.



Lampiran 2. Tabel uji mutu hedonic warna, rasa dan tekstur perbandingan

Mie Mocaf dengan terigu

NO	NAMA	WARNA					TEKSTUR					RASA				
		F1	F2	F3	F4	F5	F1	F2	F3	F4	F5	F1	F2	F3	F4	F5
1	1	4	4	3	4	4	4	4	4	4	4	4	4	4	4	4
2	2	4	4	4	4	3	4	4	4	3	3	4	3	3	3	3
3	3	4	3	4	3	3	3	4	3	4	4	3	3	4	3	4
4	4	4	3	3	4	3	4	3	2	3	4	4	4	4	4	3
5	5	3	2	4	3	2	4	4	4	4	3	3	3	3	3	4
6	6	4	4	4	4	4	3	3	4	3	4	4	4	3	4	3
7	7	3	4	4	3	3	4	2	4	4	4	4	4	3	3	4
8	8	4	4	3	3	4	4	3	3	3	4	4	4	4	4	3
9	9	4	4	4	3	3	2	4	4	2	4	3	4	4	4	4
10	10	4	4	4	3	4	2	4	4	2	2	4	3	4	3	4
	TOTAL	38	36	37	34	33	38	35	35	31	36	37	34	39	35	36
	RATA2	3,8	3,6	3,7	3,4	3,3	3,8	3,5	3,5	3,1	3,6	3,7	3,4	3,9	3,5	3,6
		3,8 : 10 = 3,8														

➤ keterangan penilaian :

warna = 2. Kurang suka 3. cukup suka/netral 4. suka

Aroma = 2. Kurang suka 3. cukup suka/netral 4. Suka

Tekstur = 2. kurang suka 3. cukup suka/netral 4. suka

Tabel hasil penimbangan

Formulasi	Berat cawan (gram)	Berat sampel (gram)	Berat akhir (gram)
F1	106,7495	1,6829	106,7212
F2	112,1525	1,5921	112,1222
F3	109,3048	1,8955	109,2556
F4	106,7652	1,6447	106,7215
F5	89,8936	1,6477	89,8480

Lemak :

$$\% \text{ Lemak} = \frac{W_2 - W_1}{W} \times 100\%$$

Keterangan: W = bobot sampel (g)

W1 = bobot lemak kosong (g)

W2 = bobot labu + lemak konstan (g)

$$\% \text{Lemak F1} = \frac{106,7495 - 106,7212}{1,6829} \times 100\% = 0,0168 \times 100\% = 1,6829$$

$$F2 = \frac{112,1525 - 112,1222}{1,5921} \times 100\% = 0,0190 \times 100\% =$$

$$F3 = \frac{109,3048 - 109,2556}{1,8955} \times 100\% = 0,0259 \times 100\% =$$

$$F4 = \frac{106,7652 - 106,7215}{1,6477} \times 100\% = 0,0265 \times 100\% =$$

$$F5 = \frac{89,8936 - 89,8480}{1,6477} \times 100\% = 0,0275 \times 100\% =$$

Karbohidrat :

Tabel konversi Luff Shoorl

MI 0,1N Na.Tiosulfat	Tabel Penentuan Glukosa , Fruktosa, Gula Invert Dalam Suatu Bahan	
1	2,4	2,4
2	4,8	2,4
3	7,2	2,5
4	9,7	2,5
5	12,2	2,5
6	14,7	2,5
7	17,2	2,6
8	19,8	2,6
9	22,4	2,6
10	25,0	2,6
11	27,6	2,6
12	30,3	2,7
13	33,0	2,7
14	35,7	2,7
15	38,5	2,8
15	41,3	2,8
16	41,3	2,9
17	44,2	2,9
18	47,1	2,9
19	50,1	3,0
20	53,0	3,0
21	56,0	3,1
22	59,1	3,1
23	62,2	

Kode sampel	Berat sampel(g)	Volume Na ₂ S ₂ O ₃ (ml)	AT (mg)	FP	FK	Mg Gula	%karbohidrat (sebelum konversi)	%karbohidrat total (setelah konversi)
F1	1,49	31,58	31,58	25	0,9	789,57	52,82	47,54
F2	1,5	31,67	31,67	25	0,9	791,67	52,61	47,35
F3	1,5	30,69	30,69	25	0,9	767,14	51,27	46,14
F4	1,49	12,04	30,41	25	0,9	760,14	51,17	46,05
F5	1,5	11,91	30,07	25	0,9	751,74	50,02	45,-2

Rumus Perhitungan:

Standarisasi larutan

$$Na_2S_2O_3 = \frac{mg \text{ KIO}_3}{V \text{ Na}_2S_2O_3 \times BE \text{ KIO}_3} \quad N \text{ Na}_2S_2O_3 = \frac{V \text{ KIO}_3 \times N \text{ KIO}_3}{(V \text{ Na}_2S_2O_3 - V \text{ Blanko})}$$

$$= \frac{37.00}{(10,10 - 0,10) \times 35,67} = \frac{37.00}{10.10 \times 35.67} = \frac{37.00}{356,7} = 0,1037$$

$$V \text{ Na}_2S_2O_3 \text{ (ml)} = \frac{(Vb - Vs)N \text{ Na}_2S_2O_3}{0,1}$$

$$\% \text{ Karbohidrat Total} = \left\{ \frac{(mg \text{ gula tabel} \times fp)}{\text{berat sampel (g)} \times 1000} \times 100 \% \right\} \times fk$$

$$- \text{ Sampel F1} = \% \text{karbohidrat} = \left(\frac{31.5828 \times 25}{1.4986 \times 1000} \right) \times 100 \times 0,90$$

$$- \% \text{ Karbohidrat Total} = \left(\frac{mg \text{ gula tabel} \times Fp}{\text{berat sampel (g)}} \times \frac{100}{1000} \right) \times \text{Faktor Konversi (fk)}$$

$$= \frac{31,5828 \times 25}{1,4949} = \frac{789,57}{1,4949} = 528,01$$

$$= 528,01 \times 0,1 = 52,801$$

$$= 52,801 \times 0,90$$

$$= 47,52 \%$$

$$= 47,54 \%$$

- Sampel F2

$$\circ \text{ Mg gula} = 31,6667 \times 25 = 791,6675 \text{ mg}$$

$\circ$ % karbohidrat sebelum konversi

$$S1 \text{ 1,5098g} : \left(\frac{791,6675}{1,5098 \times 1000} \right) \times 100 = \frac{791,6675}{1509,8} \times 100 = 52,43\%$$

$$S2 \text{ 1,4997g} : \left(\frac{791,6675}{1,4997 \times 1000} \right) \times 100 = \frac{791,6675}{1,4997} \times 100 = 52,77\%$$

$\circ$ %karbohidrat FK =

$$S1 \text{ 52,43} \times 0,90 = 47,19 \%$$

$$S2 \text{ 52,77} \times 0,90 = 47,49 \%$$

$$= \frac{47,19 + 47,49}{2} = 47,34\%$$

$$= 47,35\%$$

- Sampel F2

$$\begin{aligned} \circ \text{ \%Gula pereduksi} &= \left(\frac{31,6667 \times 25}{1,50475 \times 1000} \right) \times 100 = \left(\frac{791,6675}{1504,75} \right) \times 100 = 52,61\% \\ \circ \text{ Gula inversi} &= \left(\frac{42,000 \times 25}{1,50475 \times 1000} \right) \times 100 = \left(\frac{1050}{1504,75} \right) \times 100 = 69,79\% \end{aligned}$$

- Sampel F3

$$\begin{aligned} \circ \text{ Kadar glukosa} &= 52,61\% \times 0,90 = 47,35\% \\ \circ \text{ Mg gula pereduksi} &= 30,6858 \times 25 = 767,145 \text{ mg} \\ \circ \text{ \%karbohidrat} &= \left(\frac{767,145}{1,49635 \times 1000} \right) \times 100 = \left(\frac{767,145}{1496,35} \right) \times 100 = 51,27\% \\ \circ \text{ \%karbohidrat total} &= 51,27\% \times 0,90 = 46,14\% \end{aligned}$$

- Sampel 4

$$\begin{aligned} \circ \text{ Mg gula (glukosa)} &= 30,4058 \times 25 = 760,145 \text{ mg} \\ \circ \text{ \% karbohidrat sebelum konversi} &= \left(\frac{760,145}{1,48565 \times 1000} \right) \times 100 = \left(\frac{760,145}{1485,65} \right) \times 100 \\ &= 51,17\% \\ \circ \text{ \%karbohidrat total} &= 51,17\% \times 0,90 = 46,05\% \end{aligned}$$

- Sampel 5

$$\begin{aligned} \circ \text{ Mg gula} &= 30,0694 \times 25 = 751,735 \text{ mg} \\ \circ \text{ \%karbohidrat} &= \left(\frac{751,735}{1,5029 \times 1000} \right) \times 100 = \left(\frac{751,735}{1502,9} \right) \times 100 = 50,00\% \\ \circ \text{ \%karbohidrat total} &= 50,00\% \times 0,90 = 45,00\% \\ S^1 &= 44,97\% \\ S^2 &= 45,02\% \end{aligned}$$

Protein

- Sampel F1

$$\circ \% \text{Protein} = \left(\frac{(V_{\text{blanko}} - V_{\text{sample}}) \times N \times Fp \times 0,014 \times Fk}{\text{berat sampel (g)}} \right) \times 100$$

$$\% \text{protein S1} = \left(\frac{(18,30 - 17,80) \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,5934} \right) \times 100$$

$$= \left(\frac{0,50 \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,5934} \right) \times 100$$

$$= \left(\frac{0,50206}{0,5934} \right) \times 100 = 0,88\%$$

$$\% \text{protein S2} = \left(\frac{0,05206}{0,6037} \right) \times 100 = 0,86\%$$

$$\text{Rata-rata} = \frac{0,88 + 0,86}{2} = 0,87\%$$

- Sampel F2

$$\circ \% \text{protein S1} = \left(\frac{(18,30 - 17,40) \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,5931} \right) \times 100$$

$$= \left(\frac{0,90 \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,5931} \right) \times 100$$

$$= \left(\frac{0,09381}{0,5931} \right) \times 100 = 1,58 \%$$

$$\circ \% \text{protein S2} = \left(\frac{(18,30 - 17,40) \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,6027} \right) \times 100$$

$$= \left(\frac{0,09381}{0,6027} \right) \times 100$$

$$= 1,55 \%$$

$$\circ \text{Rata-rata} = \frac{1,58 + 1,55}{2} = 1,57\%$$

- Sampel F3

$$\circ \% \text{Protein S1} = \left(\frac{(18,30 - 17,40) \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,6037} \right) \times 100$$

$$= \left(\frac{0,90 \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,6037} \right) \times 100$$

$$= \left(\frac{0,09381}{0,6037} \right) \times 100$$

$$= 1,55 \%$$

$$\circ \% \text{Protein S2} = \left(\frac{0,09381}{0,5828} \right) \times 100 = 1,61\%$$

$$\circ \text{Rata-rata} = \frac{1,55 + 1,61}{2} = 1,58 \%$$

- Sampel F4

$$\circ \% \text{Protein S1} = \left(\frac{(18,30 - 17,80) \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,5934} \right) \times 100$$

$$= \left(\frac{0,50206}{0,5934} \right) \times 100 = 0,88\%$$

$$\circ \% \text{Protein S2} = \left(\frac{0,05206}{0,6037} \right) \times 100 = 0,86\%$$

$$\circ \text{Rata rata} = \frac{0,88 + 0,86}{2} = 0,87\%$$

- Sampel F5

$$\begin{aligned}
 \circ \quad \% \text{ Protein S1} &= \left(\frac{(18,30 - 16,80) \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,6352} \right) \times 100 \\
 &= \left(\frac{1,50 \times 0,0119 \times 10 \times 0,014 \times 6,25}{0,6352} \right) \times 100 \\
 &= \left(\frac{0,13057}{0,6352} \right) \times 100 = 2,06\% \\
 \circ \quad \% \text{ Protein S2} &= \left(\frac{0,13057}{0,6521} \right) \times 100 = 2,00\%
 \end{aligned}$$

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No	MariTanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Juara 26.09.2024	11.30	Kampus	Revisi bab 2	G
2	Selasa 30.09.2024	14.30	Kampus	Revisi bab 3	G
3	Kamis 30.09.2024	14.30	Kampus	Revisi Prosedur & bab 3	G
4	Kamis 11.10.2024	10.30	Kampus	Revisi	G
5	Jum'at 12.10.2024	11.00	Kampus	Revisi	G
6	Selasa 16 Juli 2024	14.00	di rumah Dospem	Revisi Bab 4	G
7	Kamis 25 Juli 2024	11.30	Kampus	Revisi Tabel	G
8	Jum'at 26 Juli 2024	19.00	Di rumah Dospem	Revisi Draft	G

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KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

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1.	Senin 08-01-2019	12.45	online	Revisi bab 2 dan 3	2
2.	Kamis 11-01-2019	11.15	online	lembar Pengesahan & Revisi	2
3.	Selasa 30-04-2019	11.00	online	Diskusi	2
4.	Senin 24-06-2019	10.50	online	Diskusi	2
5.	Kamis 27-06-2019	11.35	Online	Diskusi	2
6.	Senin 08-07-2019	12.30	online	Diskusi	2
7.	Kamis 07-07-2019	13.00	Puas Dosen	Diskusi dan lembar Pengesahan	2
8.	Jumat 12-07-2019	10.00	online	Diskusi	2

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