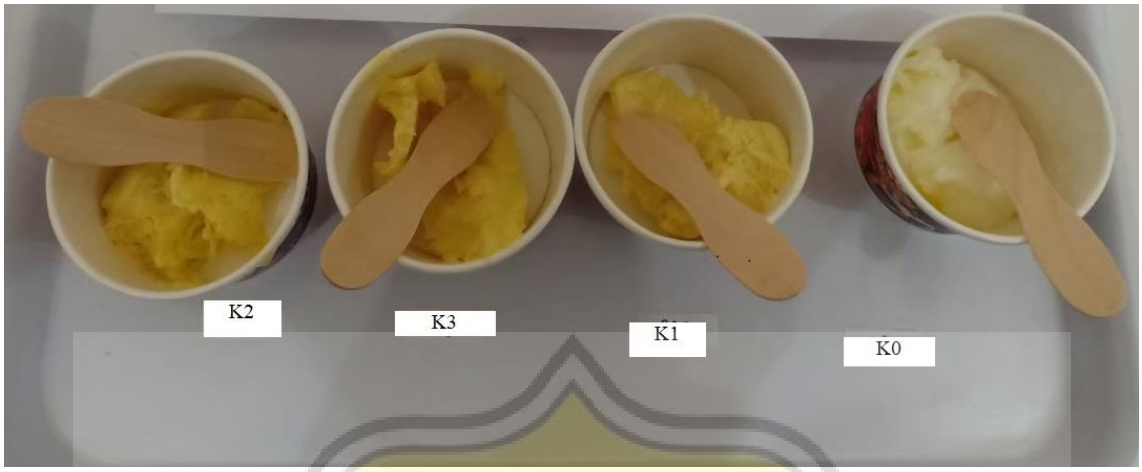
7. LAMPIRAN

Lampiran 1. Syarat Mutu Es Krim (SNI 01-3713-1995)

No.	Kriteria Uji	Satuan	Persyaratan
1	Keadaan		
	1.1 Penampakan	-	Normal
	1.2 Bau	-	Normal
	1.3 Rasa	-	Normal
2	Lemak	%b/b	Minimum 5.0
3	Gula dihitung sebagai sukrosa	%b/b	Minimum 8.0
4	Protein	%b/b	Minimum 2.7
5	Jumlah Padatan	%b/b	Minimum 3.4
6	Bahan tambahan makanan		
	4.1 Pewarna tambahan	Sesuai SNI 01 - 0222 - 1995	
	4.2 Pemanis buatan	-	Negatif
	4.3 Pemantap dan pengemulsi	Sesuai SNI 01 - 0222 - 1995	
7	Cemaran logam		
	7.1 Timbal (Pb)	mg/kg	Maksimum 1,0
	7.2 Tembaga (Cu)	mg/kg	Maksimum 20,0
8	Cemaran arsen (As)	mg/kg	Maksimum 0,5
9	Cemaran Mikroba		
	9.1 Angka lempeng total	koloni/g	Maksimum 0,5
	9.2 MPN Coliform	APM/g	< 3
	9.3 Salmonella	koloni/25 g	Negatif
	9.4 *Listeria SPP*	koloni/25 g	Negatif

Lampiran 2. Dokumentasi Es krim



Keterangan:
K0 = es krim komersial (walls)
K1 = es krim dengan penambahan kolang-kaling 50 g
K2 = es krim dengan penmabahan kolang-kaling 100 g
K3 = es krim dengan penambahan kolang-kaling 150 g

Lampiran 3. Kemasan es krim

(a) (b) (c) (d)

Keterangan:
(a) = *Cup*
(b) = *Cone*
(c) = *Square-round*
(d) = *Bulk Container*

Lampiran 4. Survey Penerimaan Konsumen

Pertanyaan	Jawaban
Nama	
No. HP	
Umur	17-25 Tahun
	26-39 Tahun
	>40 Tahun
Gender	Laki-laki
	Perempuan
Jenis Pekerjaan	SMA
	Mahasiswa
	Tidak bekerja
	Karyawan swasta
	PNS
	Wirausaha
	Pensiunan
Domisili	Semarang
	Jawa Tengah
	Jawa Timur
	DI Yogyakarta
	Jawa Barat
	DKI Jakarta
	Banten
	Luar Pulau Jawa
Apakah anda suka makan es krim?	Ya
	Tidak
Apakah anda familiar dengan rasa dan aroma kolang-kaling?	Ya
	Tidak
Anda lebih suka es krim dengan rasa	Manis
	Asin
	Pahit
	Asam
Anda lebih suka es krim dengan flavour	Fruity
	Dairy
	Santan
	Mint
	Coklat
	Vanilla
	Kacang

	citrus
Anda lebih suka es krim dengan warna	Hijau
	Putih
	Merah
	Biru
	Merah muda
	Coklat
Anda lebih suka es krim dengan tekstur	Firm (butuh tenaga untuk menghancurkan es krim di antara lidah dan langit-langit)
	Viscous (es krim meleleh ketika di tekan diantara lidah dan langit-langit)
	Fat feel (es krim terasa sedikit berminyak ketika berada diantara lidah dan langit-langit)
	Chalkiness (ada sensasi tepung di mulut)
	Iciness (ada sensasi kristal es yang mencair)
	Mouth coating (ada sensasi licin atau berminyak yang melapisi lidah dan langit-langit)
	seed awerness (ada sensasi biji dari buah-buahan)
	fruit awarness (sensasi seperti makan buah dari pada es krim)
Jika ada inovasi es krim kolang-kaling menggunakan pewarna alami labu kuning, bertekstur viscous, flavour santan dan dairy apakah kalian ingin mencoba?	Ya
	Tidak
Apa yang membuat anda tertarik untuk mencoba es krim kolang-kaling?	
Anda lebih memilih es krim dengan flavour berbahan dasar yang alami atau perisa	Alami
	Perisa
Anda lebih memilih es krim dengan warna berbahan dasar yang alami atau sintetis	Alami
	sintetis
Menurut anda apakah es krim yang memiliki kandungan pangan fungsional akan diterima oleh masyarakat?	Ya
	Tidak
jika ada es krim dengan kandungan pangan fungsional,	Antioksidan
	Rendah lemak

kandungan apa yang akan anda pilih?	Tinggi protein
	Tinggi kalsium
	mengandung serat
Anda lebih memilih bentuk kemasan es krim seperti apa?	Cup
	Cone
	Square-round
	Bulk Container
Berapa rentang harga yang akan anda berikan untuk membeli sebuah es krim dengan kandungan pangan fungsional?	Rp 5000 - Rp 10.000
	Rp10.000 - Rp 20.000
	Rp 20.000 - Rp 30.000
	>Rp. 30.000
Apakah menurut anda es krim kolang kaling dengan pewarna alami labu kuning yang memiliki kandungan antioksidan dan serat akan menjadi produk unggulan?	Ya
	Tidak

Lampiran 5. Analisis SPSS Uji Kimia Normalitas dan Homogenitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Konsentrasi	Statistic	df	Sig.	Statistic	df	Sig.
Padatan	kontrol	,234	6	,200*	,962	6	,835
	50 g	,271	6	,191	,833	6	,114
	100 g	,240	6	,200*	,806	6	,067
	150	,264	6	,200*	,840	6	,129
Air	kontrol	,226	6	,200*	,962	6	,836
	50 g	,271	6	,191	,833	6	,114
	100 g	,241	6	,200*	,795	6	,053
	150	,264	6	,200*	,840	6	,129
Lemak	kontrol	,208	6	,200*	,935	6	,621
	50 g	,257	6	,200*	,810	6	,073
	100 g	,208	6	,200*	,910	6	,437
	150	,252	6	,200*	,873	6	,236
Protein	kontrol	,208	6	,200*	,935	6	,621
	50 g	,280	6	,153	,867	6	,215
	100 g	,298	6	,104	,804	6	,064
	150	,266	6	,200*	,811	6	,073
Abu	kontrol	,310	6	,074	,805	6	,065
	50 g	,254	6	,200*	,866	6	,212
	100 g	,254	6	,200*	,866	6	,212
	150	,378	6	,007	,751	6	,020
Karbohidrat	kontrol	,279	6	,160	,831	6	,110
	50 g	,160	6	,200*	,974	6	,916
	100 g	,166	6	,200*	,949	6	,734
	150	,232	6	,200*	,895	6	,344
Sukrosa	kontrol	,140	6	,200*	,987	6	,979
	50 g	,120	6	,200*	,989	6	,988
	100 g	,270	6	,195	,874	6	,245
	150	,193	6	,200*	,899	6	,365

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Padatan	5,175	3	20	,008
Air	5,512	3	20	,006
Lemak	2,248	3	20	,114
Protein	4,415	3	20	,015
Abu	1,355	3	20	,285
Karbohidrat	1,202	3	20	,334
Sukrosa	,520	3	20	,674

Lampiran 6. Analisia Kimia: Uji *One-way* ANOVA dan Uji Post Hoc (Duncan)

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Padatan	Between Groups	72,648	3	24,216	188,191	,000
	Within Groups	2,574	20	,129		
	Total	75,222	23			
Air	Between Groups	72,527	3	24,176	187,031	,000
	Within Groups	2,585	20	,129		
	Total	75,112	23			
Lemak	Between Groups	307,126	3	102,375	784,276	,000
	Within Groups	2,611	20	,131		
	Total	309,737	23			
Protein	Between Groups	15,033	3	5,011	6,909	,002
	Within Groups	14,506	20	,725		
	Total	29,539	23			
Abu	Between Groups	,022	3	,007	56,974	,000
	Within Groups	,003	20	,000		
	Total	,024	23			
Karbohidrat	Between Groups	496,297	3	165,432	125,248	,000
	Within Groups	26,417	20	1,321		
	Total	522,713	23			
Sukrosa	Between Groups	917,376	3	305,792	164,281	,000
	Within Groups	37,228	20	1,861		
	Total	954,604	23			

Padatan

Duncan[a]

		Subset for alpha = .05			
Konsentrasi	N	1	2	3	4
150	6	34,2017			
100 g	6		36,0200		
kontrol	6			38,0350	
50 g	6				38,6033
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Air

Duncan[a]

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
50 g	6	61,3967			
kontrol	6		61,9683		
100 g	6			63,9717	
150	6				65,7983
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lemak

Duncan[a]

Konsentrasi	N	Subset for alpha = .05		
		1	2	3
kontrol	6	3,8417		
150	6		11,4767	
100 g	6		11,5733	
50 g	6			12,9350
Sig.		1,000	,648	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Protein

Duncan[a]

Konsentrasi	N	Subset for alpha = .05	
		1	2
kontrol	6	3,8417	
50 g	6		5,2017
100 g	6		5,5367
150	6		5,9517
Sig.		1,000	,164

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Abu

Duncan[a]

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
150	6	,1417			
100 g	6		,1583		
50 g	6			,1817	
kontrol	6				,2217
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Karbohidrat

Duncan[a]

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
150	6	16,5433			
100 g	6		18,7517		
50 g	6			20,3267	
kontrol	6				28,5733
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Sukrosa

Duncan[a]

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
50 g	6	27,2667			
100 g	6		34,9150		
150	6			40,0450	
kontrol	6				43,7500
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 7. Analisis SPSS Uji Fisik Normalitas dan Homogenitas

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Konsentrasi	Statistic	df	Sig.	Statistic	df	Sig.
Overrun	kontrol	,339	6	,030	,807	6	,068
	50g	,259	6	,200*	,853	6	,167
	100g	,259	6	,200*	,825	6	,098
	150g	,257	6	,200*	,827	6	,100
VAR00004	kontrol	,191	6	,200*	,968	6	,881
	50g	,208	6	,200*	,876	6	,251
	100g	,202	6	,200*	,911	6	,446
	150g	,258	6	,200*	,862	6	,198
L	kontrol	,183	6	,200*	,928	6	,562
	50g	,227	6	,200*	,898	6	,363
	100g	,274	6	,181	,886	6	,296
	150g	,283	6	,144	,819	6	,086
a	kontrol	,202	6	,200*	,900	6	,371
	50g	,271	6	,193	,811	6	,074
	100g	,237	6	,200*	,921	6	,511
	150g	,268	6	,200*	,850	6	,157
b	kontrol	,269	6	,198	,851	6	,160
	50g	,214	6	,200*	,958	6	,804
	100g	,201	6	,200*	,960	6	,820
	150g	,232	6	,200*	,896	6	,348

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Overrun	1,610	3	20	,219
VAR00004	21,443	3	20	,000
L	45,825	3	20	,000
a	2,369	3	20	,101
b	3,770	3	20	,027

Lampiran 8. Analisia Fisik: Uji One-way ANOVA dan Uji Post Hoc (Duncan)

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Overrun	Between Groups	7433,904	3	2477,968	6193,617	,000
	Within Groups	8,002	20	,400		
	Total	7441,905	23			
VAR00004	Between Groups	934,616	3	311,539	3753,062	,000
	Within Groups	1,660	20	,083		
	Total	936,276	23			
L	Between Groups	45,938	3	15,313	2,112	,131
	Within Groups	145,039	20	7,252		
	Total	190,977	23			
a	Between Groups	34,882	3	11,627	367,343	,000
	Within Groups	,633	20	,032		
	Total	35,515	23			
b	Between Groups	832,421	3	277,474	150,396	,000
	Within Groups	36,899	20	1,845		
	Total	869,320	23			

Overrun

Duncan[a]

		Subset for alpha = .05			
Konsentrasi	N	1	2	3	4
50g	6	37,6117			
100g	6		41,6233		
150g	6			45,9933	
kontrol	6				81,8067
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Kecepatan leleh

Duncan

		Subset for alpha = .05			
Konsentrasi	N	1	2	3	4
kontrol	6	17,3517			
50g	6		18,8767		
100g	6			24,3483	
150g	6				33,2917
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a Uses Harmonic Mean Sample Size = 6,000.

L

Duncan[a]

Konsentrasi	N	Subset for alpha = .05
		1
50g	6	84,7917
150g	6	87,7050
kontrol	6	87,9967
100g	6	88,1850
Sig.		,057

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

a

Duncan[a]

Konsentrasi	N	Subset for alpha = .05			
		1	2	3	4
150g	6	-5,8950			
50g	6		-5,5983		
100g	6			-4,6683	
kontrol	6				-2,8067
Sig.		1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

b

Duncan[a]

Konsentrasi	N	Subset for alpha = .05		
		1	2	3
kontrol	6	21,9800		
50g	6		34,2317	
150g	6		35,6917	35,6917
100g	6			36,4450
Sig.		1,000	,077	,348

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 9. Uji SPSS Validitas dan Reliabilitas

Correlations

		Umur	Gender	Pekerjaan	Domisili	Kemasan	Harga	Total
Umur	Pearson Correlation	1	,023	,658**	,134**	,069	,076	,666**
	Sig. (2-tailed)		,629	,000	,005	,155	,116	,000
	N	428	428	428	428	427	428	428
Gender	Pearson Correlation	,023	1	-,081	,129**	,030	-,008	,244**
	Sig. (2-tailed)	,629		,093	,008	,541	,863	,000
	N	428	428	428	428	427	428	428
Pekerjaan	Pearson Correlation	,658**	-,081	1	,248**	-,018	,050	,561**
	Sig. (2-tailed)	,000	,093		,000	,713	,303	,000
	N	428	428	428	428	427	428	428
Domisili	Pearson Correlation	,134**	,129**	,248**	1	,028	-,028	,379**
	Sig. (2-tailed)	,005	,008	,000		,561	,568	,000
	N	428	428	428	428	427	428	428
Kemasan	Pearson Correlation	,069	,030	-,018	,028	1	,259**	,563**
	Sig. (2-tailed)	,155	,541	,713	,561		,000	,000
	N	427	427	427	427	427	427	427
Harga	Pearson Correlation	,076	-,008	,050	-,028	,259**	1	,537**
	Sig. (2-tailed)	,116	,863	,303	,568	,000		,000
	N	428	428	428	428	427	428	428
Total	Pearson Correlation	,666**	,244**	,561**	,379**	,563**	,537**	1
	Sig. (2-tailed)	,000	,000	,000	,000	,000	,000	
	N	428	428	428	428	427	428	428

**. Correlation is significant at the 0.01 level (2-tailed).

Reliability Statistics

Cronbach's Alpha	Cronbach's Alpha Based on Standardized Items	N of Items
,682	,658	7

Lampiran 10. Uji SPSS Mann-whitney Domisili

Test Statistics[a]

	Kemasan	Rentang_ harga	Total	Suka_eskrim	Kolang_kaling	Labu_kuning	Inovasi_Es	Ketertarikan	Flavour	Pewarna	Penerimaan_ Pangfung	Produk_ unggulan
Mann-Whitney U	22142,500	22067,500	12864,500	22897,500	20828,000	22425,000	22664,500	21843,000	21197,500	22474,500	22679,500	22450,500
Wilcoxon W	45147,500	44858,500	36084,500	45688,500	44048,000	45216,000	45884,500	45063,000	43988,500	45265,500	45899,500	45670,500
Z	-,542	-,695	-7,919	,000	-2,483	-,469	-,370	-,866	-3,334	-1,264	-,726	-,709
Asymp. Sig. (2-tailed)	,588	,487	,000	1,000	,013	,639	,712	,386	,001	,206	,468	,478

a. Grouping Variable: Domisili

Lampiran 11. Uji SPSS Mann-whitney Pekerjaan

Test Statistics[a]

	Kemasan	Rentang_ harga	Total	Suka eskrim	Kolang kaling	Labu kuning	Inovasi Es	Ketertarikan	Flavour	Pewarna	Penerimaan_ Pangfung	Produk_ unggulan
Mann-Whitney U	22166,500	21938,000	7685,500	22898,000	21293,000	20009,000	22256,000	21886,000	22042,000	22470,000	22684,000	21828,000
Wilcoxon W	45171,500	44943,000	30690,500	45903,000	44298,000	43014,000	45261,000	44891,000	45047,000	45475,000	45689,000	44833,000
Z	-,522	-,804	-12,007	,000	-1,925	-2,867	-1,018	-,831	-1,679	-1,278	-,713	-1,697
Asymp. Sig. (2-tailed)	,602	,421	,000	1,000	,054	,004	,308	,406	,093	,201	,476	,090

a. Grouping Variable: Pekerjaan

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